TETRA TECH

January 5, 2023

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Release Characterization and Remediation Work Plan
Energy Transfer Company
Shurvesa Interconnect Release
Lea County, New Mexico
DOR: 3/10/2022
Approximate Release Point: 32.2411479, -103.6229372
Incident ID: nAPP2206954187

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by Energy Transfer Company (ETC) to assess a release that occurred at the Shurvesa Interconnect Release (Site) due to the chemical hose separating from the fitting above the valve on the pipeline side of the pig launcher. The release footprint is entirely on pad and is located in Public Land Survey System (PLSS) Unit Letter P, Section 1, Township 24 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.2411479°, -103.6229372°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on March 10, 2022. The release occurred as the result of the chemical hose separating from the fitting above the valve on the pipeline side of the pig launcher. An additional source was reported to have been due to the check valve also leaking. Based on the C-141, this release consisted of approximately 22.7 barrels (bbls) of crude oil and 270 gallons (gal) of corrosion inhibitor which affected an area of approximately 495 square feet. During initial response activities, a vacuum truck recovered approximately 3 bbls of crude oil and unknown amount of corrosion inhibitor. The initial C-141 was dated to have been submitted March 24, 2022 and received by The New Mexico Oil Conservation District (NMOCD) on March 25, 2022, who subsequently assigned it the Incident ID nAPP2206954187.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no wells within a ½ mile (800 meters) of the Site and the closest well with a documented depth to groundwater is 3,357 meters from the Site. This one well has a depth to water which is documented at 1,533 feet below ground surface (bgs).

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

As the available water level information is from a well farther than ½ mile away from the site, ETC elected to drill a boring to verify depth to groundwater. On December 1, 2022, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole (GWDB) to 55 feet bgs along the edge of the Shurvessa Interconnect lease pad. The borehole was temporarily set and screened using 2-inch PVC well materials. The borehole was left for a minimum of 72 hours and checked for the presence of groundwater. No water was present in the well on December 6, 2022, and the borehole was dry. The well screen and casing were removed, and the borehole was plugged with 3/8" bentonite chips. Based on this data, ETC proposes to use the 51 feet – 100 feet criteria listed in Table I of 19.15.29.12 NMAC. The borehole location is indicated on Figure 3. The site characterization data and GWDB boring log are included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL ASSESSMENT ACTIVITIES AND RESULTS

Tetra Tech conducted initial assessment activities on October 13, 2022. Tetra Tech Geologist Joe Tyler met with ETC representative Ryan Reich and Standard representatives Thomas Franklin and Cody Nikolai. The initial assessment consisted of the drilling and sampling of eight (8) hand auger borings (AH-1 through AH-8) to a maximum depth of 7 feet bgs. Of these borings, AH-1 to AH-4 were installed around the perimeters of the release extents to a depth of 1-foot bgs to determine the lateral extent of the impacted soil. The remaining borings (AH-5 to AH-8) were drilled within the release footprint to depths ranging from 4 to 7 feet bgs in an attempt to determine the extent of the vertical impact of the release. The approximate release extent and the locations of the 8 hand auger borings are indicated in Figure 3. Photographic documentation of the Site conditions at the time of the assessment is presented in Appendix C.

A total of twenty-six (26) samples were collected from the borings with samples being collected at the surface and then at subsequent 1-foot depth intervals. All 26 samples were then transferred under chain of

custody and analyzed within appropriate holding times by Eurofins-Xenco in Midland, Texas (Xenco). Samples were hand delivered on October 14, 2022 and placed on a 5-day rush as requested by ETC. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method 300.0, and BTEX via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Results from the October 13, 2022 soil sampling event are summarized in Table 1. The analytical results associated with boring locations AH-5 and AH-7 exceeded the Site specific RRAL for BTEX (50 mg/kg) to the boring depths of 4 and 5 feet bgs, respectively, in addition to exceeding the Site specific RRAL for TPH (2,500 mg/kg) to the total depths of 6 and 5 feet bgs, respectively. The results associated with the borings AH-6 and AH-8 also exceeded the Site specific RRAL for TPH (2,500 mg/kg) to the total depths of 3 and 2 feet bgs, respectively. No sample results exceeded the Site RRAL for chloride of 600 mg/kgs. The results associated with the remainder of analyzed samples were below the Site RRALs for chloride, TPH, and BTEX. Based on the analytical results from the October 13, 2022 sampling event, horizontal delineation of the release was achieved but the vertical delineation of the release was only partially achieved during this assessment.

ADDITIONAL SITE ASSESSMENT AND RESULTS

Tetra Tech personnel returned to the Site on December 1, 2022 to conduct additional soil sampling to further determine vertical delineation. A total of two (2) borings (BH-1 and BH-2) were installed with an air rotary drilling rig within the release extent near the previously sampled boring locations AH-5 and AH-7, respectively.

A total of six (6) soil samples were collected to a total depth of 10 feet bgs, transferred under chain of custody, and analyzed within appropriate holding times by Xenco. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method 300.0, and BTEX via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Results from the December 1, 2022 soil sampling event are also summarized in Table 1. The analytical results associated with boring locations BH-1 and BH-2 were all below the Site RRALs for chloride, TPH, and BTEX. Based on the additional analytical data results, horizontal and vertical delineation of the release has been achieved.

REMEDIATION WORK PLAN

Based on the analytical results, ETC proposes to remove the impacted material as shown in Figure 4. Impacted soils west of BH-1 and AH-5 will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) ranging from a minimum depth of 2 feet bgs around AH-8 to a maximum depth of 6 feet bgs around AH-5. Excavation will continue until a representative sample from the walls and bottom of the excavation is below the Site RRALs. The impacted soils to the east and south of BH-1 and AH-5 will be advised to be excavated using hydrovac or hand digging methods based on safety concerns to personnel due to the proximity to buried/aboveground oil and gas production equipment. As such, ETC will excavate the impacted soils in this area to the maximum extent possible.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities and analyzed for TPH, BTEX, and chloride. The estimated volume of material to be remediated is approximately 150 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, Energy Transfer Company proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 5. Three (3) confirmation floor samples and four (4) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 943 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to Xenco for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0). Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

In accordance with 19.15.29.13 NMAC, ETC proposes to grade the backfilled area to resemble pre-release conditions. As the entirety of the proposed remediation area is on an active lease pad within an oil and gas production area, final reclamation will occur once the lease pad is no longer being used for oil and gas production. Therefore, seeding of the release area is deemed unnecessary until the end of the life of the lease pad.

CONCLUSION

Energy Transfer Company proposes to begin remediation activities at the Site within 90 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. Final reclamation will occur once the lease pad is no longer being used for oil and gas production.

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (432) 210-6952 or Christian at (512) 565-0190.

Sincerely,

Tetra Tech, Inc.

Joe Tyler
Project Manager

Christian M. Llull, P.G.
Program Manager

cc:
Mr. Ryan Reich – Energy Transfer Company

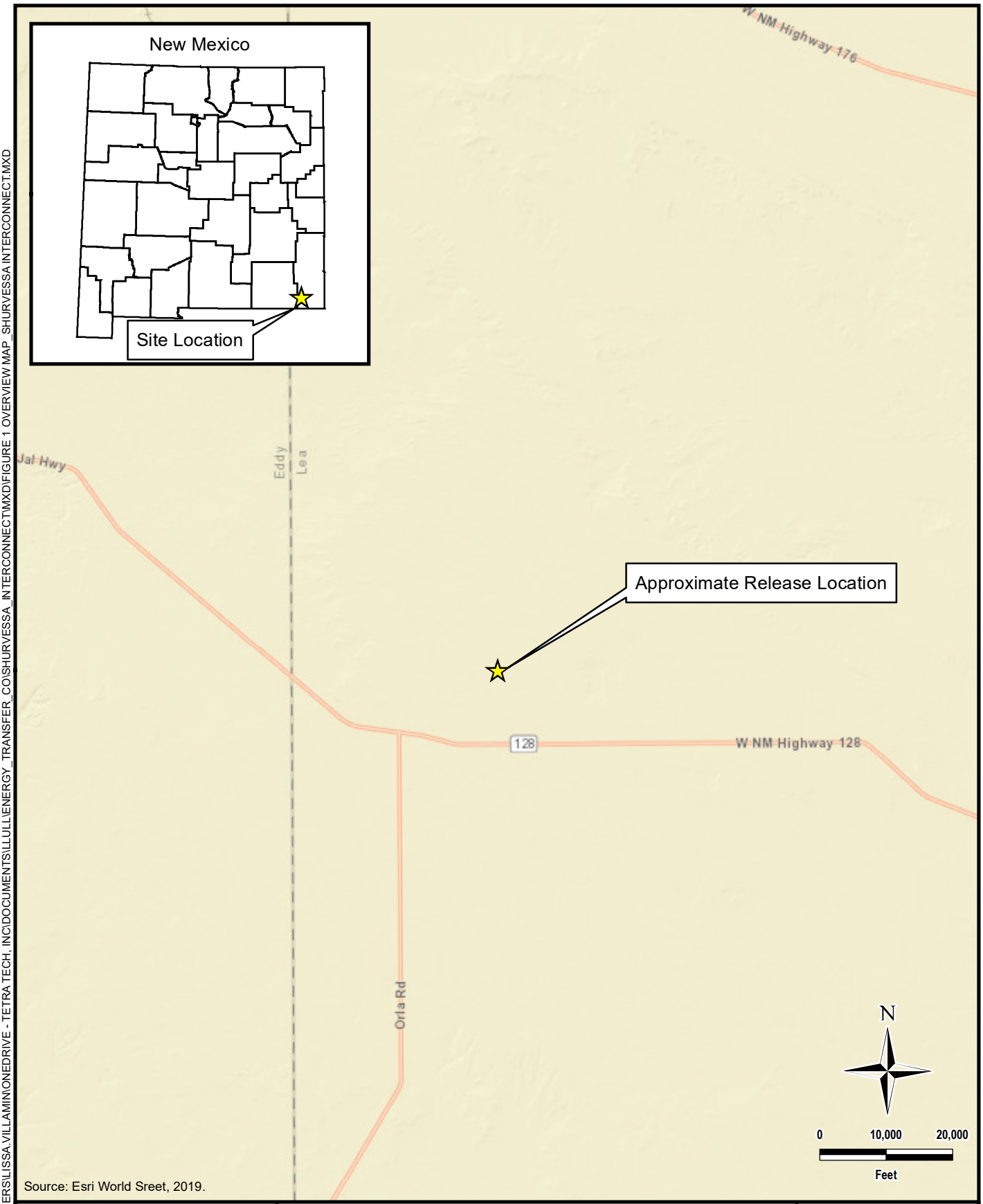
LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\ENERGY_TRANSFER_CO\SHURVESSA_INTERCONNECT\MXD\FIGURE 1 OVERVIEW MAP_SHURVESSA INTERCONNECT.MXD

TETRA TECH
www.tetratech.com
901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

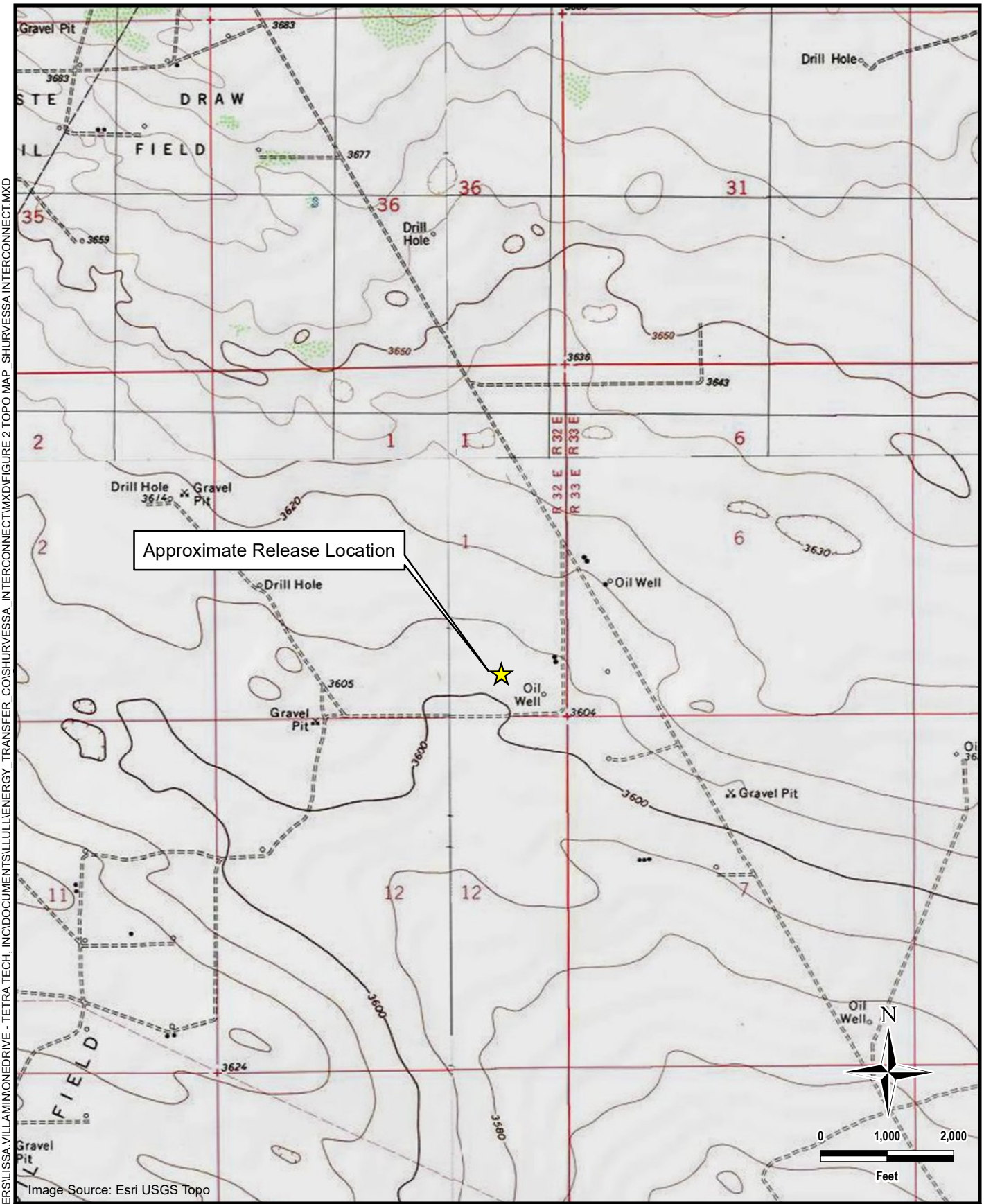
ENERGY TRANSFER COMPANY

NAPP2206954187
32.241170°, -103.622947°)
LEA COUNTY, NEW MEXICO

SHURVESSA INTERCONNECT RELEASE
OVERVIEW MAP

PROJECT NO.:	212C-MD-02921
DATE:	DECEMBER 12, 2022
DESIGNED BY:	LMV

Figure No.
1



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\ENERGY_TRANSFER_CO\SHURVESSA_INTERCONNECT\MXD\FIGURE 2 TOPO MAP_SHURVESSA INTERCONNECT.MXD

TETRA TECH

www.tetratech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

ENERGY TRANSFER COMPANY

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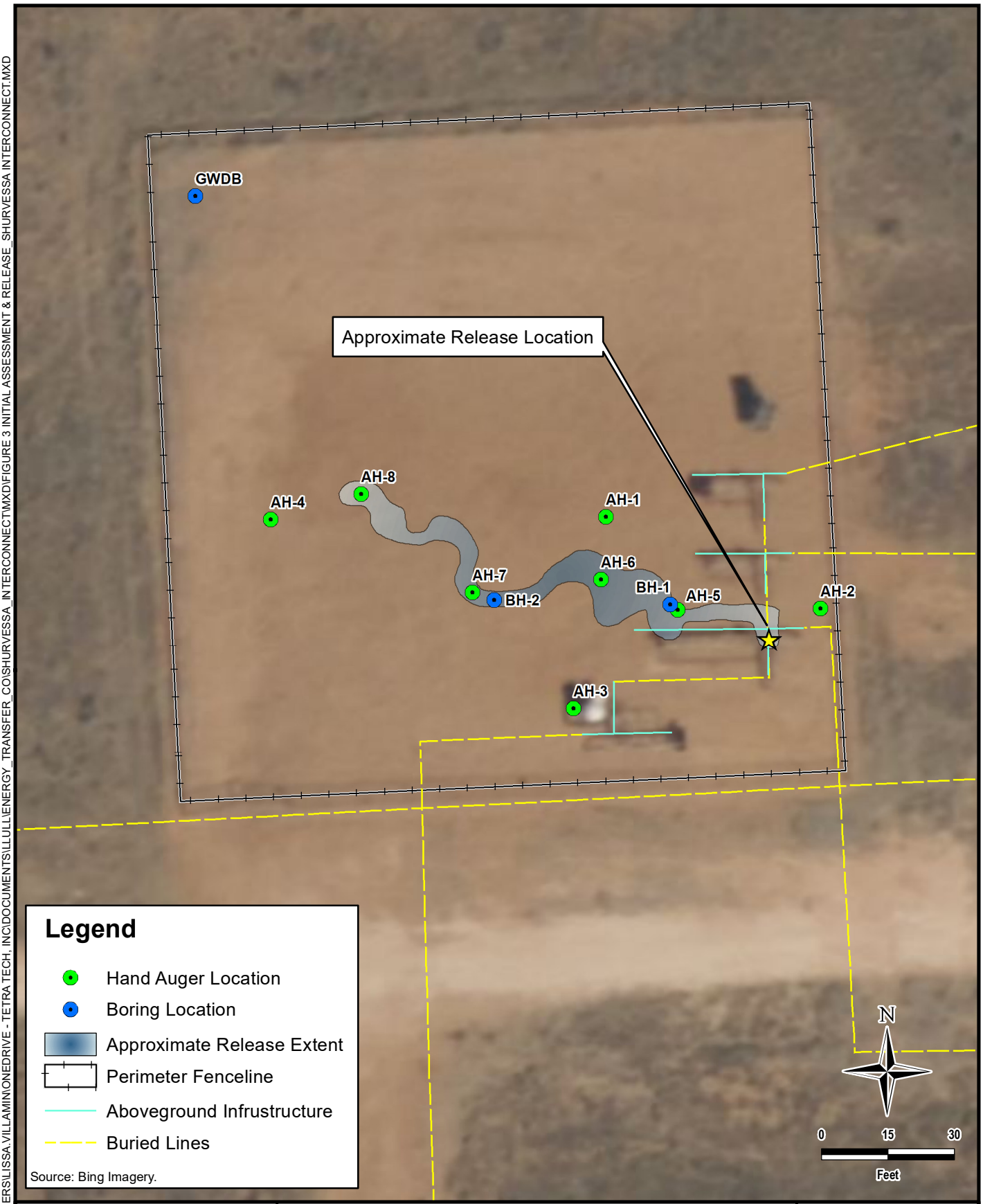
LEA COUNTY, NEW MEXICO

SHURVESSA INTERCONNECT RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-02921
DATE:	DECEMBER 12, 2022
DESIGNED BY:	LMV

Figure No.
2



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\ENERGY_TRANSFER_CO\SHURVESSA_INTERCONNECT\MXD\FIGURE 3 INITIAL ASSESSMENT & RELEASE_SHURVESSA INTERCONNECT.MXD

TETRA TECH
www.tetratech.com
901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

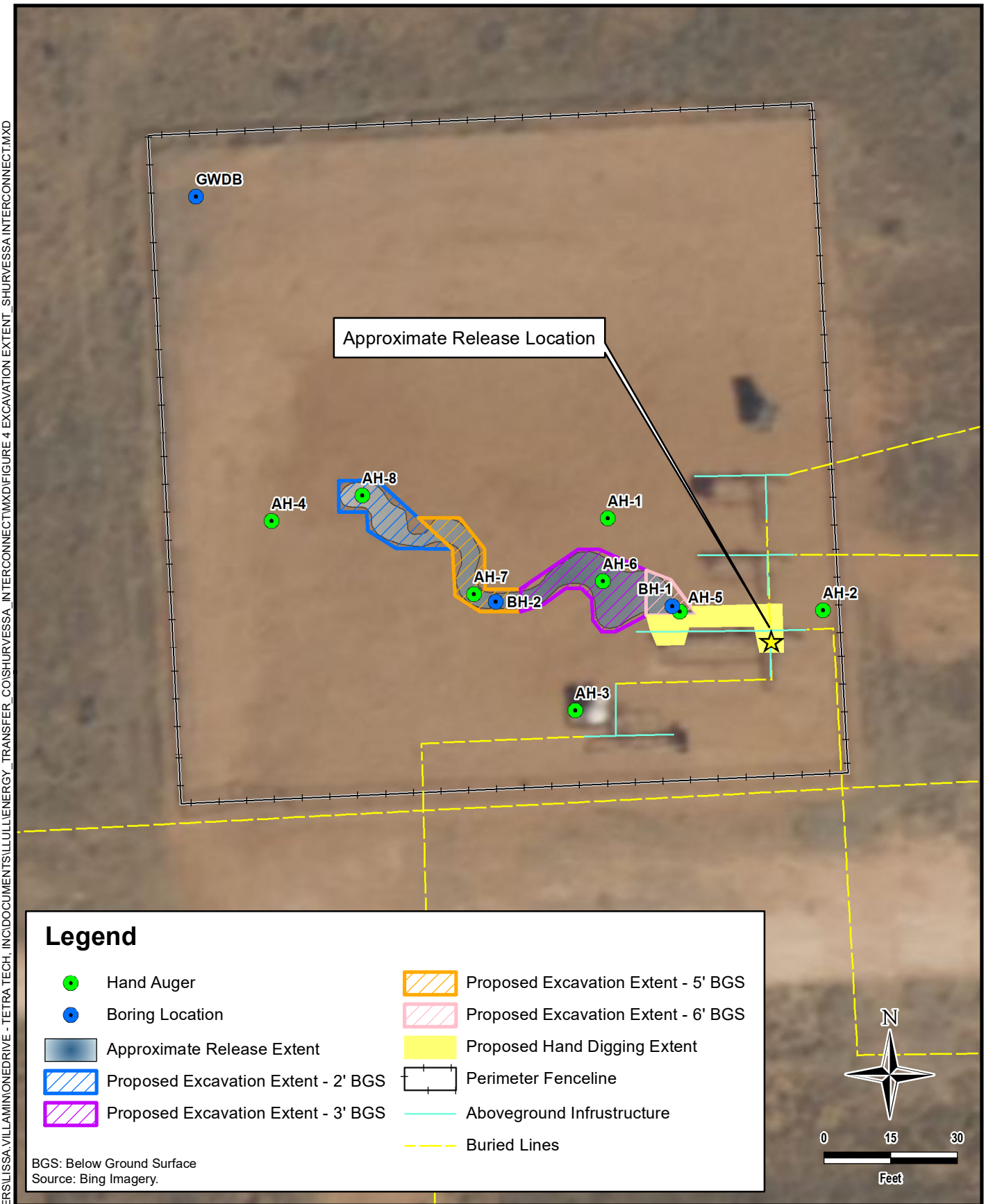
ENERGY TRANSFER COMPANY

NAPP2206954187
32.241170°, -103.622947°)
LEA COUNTY, NEW MEXICO

SHURVESSA INTERCONNECT RELEASE
INITIAL ASSESSMENT AND RELEASE EXTENT

PROJECT NO.:	212C-MD-02921
DATE:	DECEMBER 15, 2022
DESIGNED BY:	LMV

Figure No.
3



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TETRA TECH

www.tetratech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

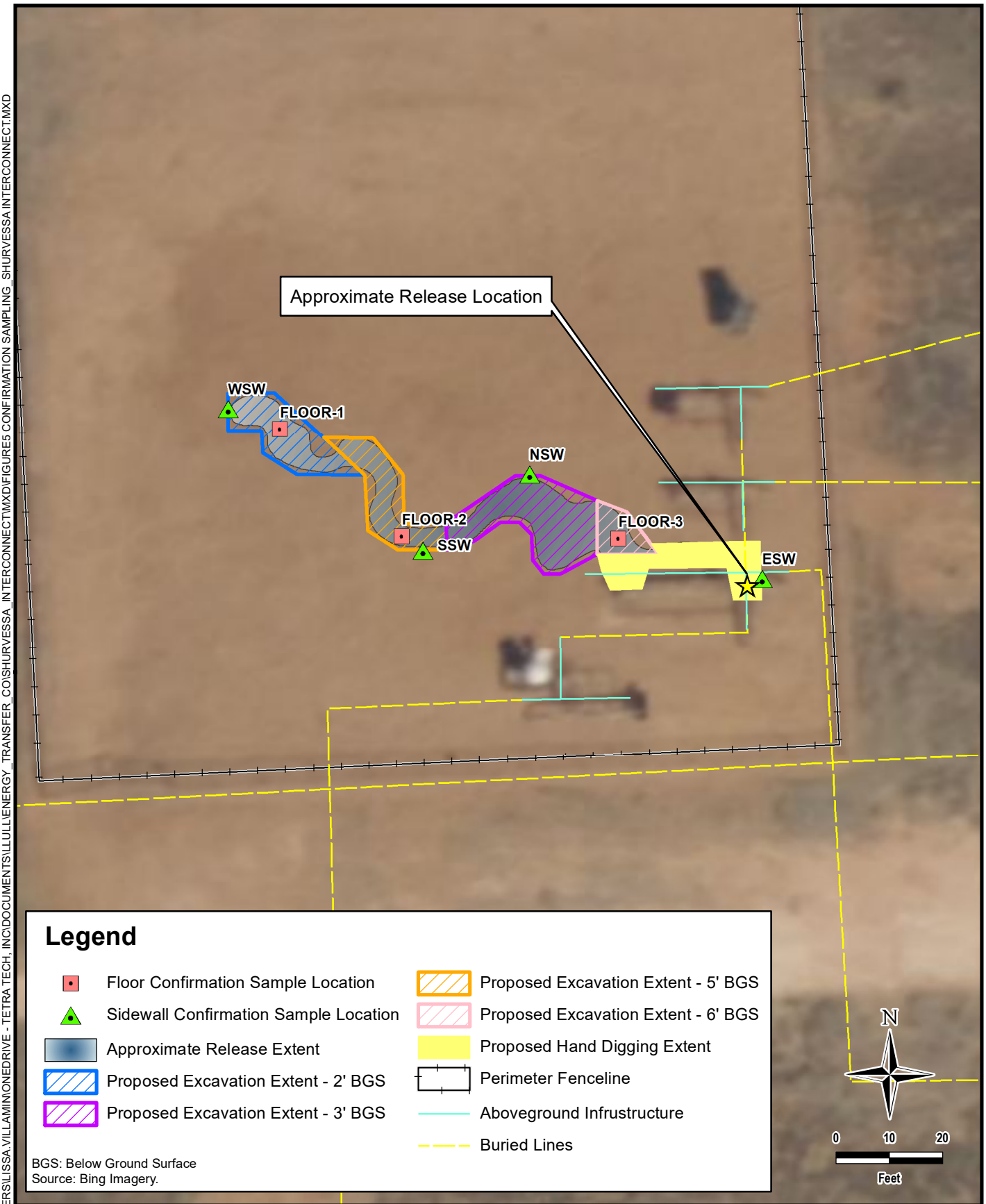
ENERGY TRANSFER COMPANY

NAPP2206954187
32.241170°, -103.622947°)
LEA COUNTY, NEW MEXICO

SHURVESSA INTERCONNECT RELEASE
EXCAVATION EXTENT

PROJECT NO.:	212C-MD-02921
DATE:	DECEMBER 15, 2022
DESIGNED BY:	LMV

Figure No.
4



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\ENERGY_TRANSFER_CO\SHURVESSA_INTERCONNECT\MXD\FIGURE5 CONFIRMATION SAMPLING_SHURVESSA INTERCONNECT.MXD

TETRA TECH
www.tetratech.com
901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

ENERGY TRANSFER COMPANY

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LEA COUNTY, NEW MEXICO

SHURVESSA INTERCONNECT RELEASE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-02921
DATE:	DECEMBER 15, 2022
DESIGNED BY:	LMV

Figure No.
5

TABLE

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - nAPP2206954187
ENERGY TRANSFER COMPANY
SHURVESA INTERCONNECT RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C_6 - C_{10}		DRO > C_{10} - C_{28}		EXT DRO > C_{28} - C_{36}		Total TPH (GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-1	10/13/2022	0-1	17.2		<0.00200		<0.00200		<0.00200		<0.00401		<0.00401		<49.8		<49.8		<49.8		<49.8
AH-2	10/13/2022	0-1	17.2		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<49.9		<49.9		<49.9		<49.9
AH-3	10/13/2022	0-1	12.4		<0.00200		<0.00200		<0.00200		<0.00399		<0.00399		<49.8		<49.8		<49.8		<49.8
AH-4	10/13/2022	0-1	17.0		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<49.9		<49.9		<49.9		<49.9
AH-5	10/13/2022	0-1	58.6		0.0757		0.2070		0.3600		3.73		4.37		201		5,620		607		**6,430**
	10/13/2022	1-2	53.7		0.3890		1.99		1.64		16.5		20.5		868		5,390		443		**6,700**
	10/13/2022	2-3	34.4		0.8380		1.53		3.65		48.2		**54.2**		1,540		6,140		498		**8,180**
	10/13/2022	3-4	18.9		1.46		7.91		4.64		50.3		**64.3**		1,160		4,330		354		**5,840**
	10/13/2022	4-5	-		<0.0503		4.22		3.64		28.0		35.8		1,400	*- *1	3,080	*- *1	<50.0		**4,480**
	10/13/2022	5-6	-		-		-		-		-		-		1,340		4,550		507		**6,400**
AH-6	10/13/2022	0-1	57.5		0.0043		0.0172		0.1060		12.0		12.1		453		5,310		553		**6,320**
	10/13/2022	1-2	19.0		0.3450		0.8620		2.60		29.3		33.1		917		4,760		427		**6,100**
	10/13/2022	2-3	21.7		0.0111		0.0670		0.2980		27.0		27.4		899		4,290		356		**5,550**
	10/13/2022	3-4	13.1		<0.00200		<0.00200		<0.00200		0.040		0.0400		<49.9		<49.9		<49.9		<49.9
AH-7	10/13/2022	0-1	22.9		<0.0402		5.43		5.79		24.9		37.6		757		7,070		619		**8,450**
	10/13/2022	1-2	17.5		0.5840		13.1		9.91		45.9		**69.5**		1,150		6,180		515		**7,850**
	10/13/2022	2-3	17.0		0.7010		22.8		15.2		67.3		**106**		1,520		5,980		507		**8,010**
	10/13/2022	3-4	16.7		0.8330		18.6		13.5		58.9		**91.8**		1,450		4,300		386		**6,140**
	10/13/2022	4-5	21.5		<0.201		14.4		11.7		54.4		**80.5**		1,440		5,450		477		**7,370**
	10/13/2022	5-6	-		<0.00200		0.0870		0.0679		0.6080		0.7630		91.5	*- *1	388	*- *1	<49.9		480
	10/13/2022	6-7	-		-		-		-		-		-		<49.9		176		<49.9		176
AH-8	10/13/2022	0-1	16.1		0.1500		1.85		6.84		31.6		35.4		829		4,730		448		**6,010**
	10/13/2022	1-2	12.6		0.1140		0.5060		2.24		11.8		14.6		461		2,720		241		**3,420**
	10/13/2022	2-3	20.4		<0.00198		<0.00198		<0.00198		0.0083		0.0083		<49.9		<49.9		<49.9		<49.9
	10/13/2022	3-4	<5.02		<0.00200		<0.00200		<0.00200		<0.00401		<0.00401		<49.9		<49.9		58.8		58.8
	10/13/2022	4-5	<5.02		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<50.0		<50.0		<50.0		<50.0
BH-1	12/1/2022	4-5	17.9		0.0345	*- *1	0.0575	*- *1	0.2990		<0.0802		0.3910		<49.9		<49.9		<49.9		<49.9
	12/1/2022	6-7	45.5		<0.00199	*- *1	<0.00199	*- *1	0.00466		0.0544	*+ *1	0.0591		<49.9		386		<49.9		386
	12/1/2022	9-10	23.9		<0.00199	*- *1	<0.00199	*- *1	<0.00199		0.0089	*+ *1	0.0089		<49.9		<49.9		<49.9		<49.9
BH-2	12/1/2022	4-5	30.6		<0.00200	*- *1	0.0123	*- *1	0.131		1.11	*+ *1	1.25		192		504		<49.9		696
	12/1/2022	6-7	19.7		<0.00201	*- *1	<0.00201	*- *1	<0.00201		0.00749	*+ *1	0.00749		<50.0		<50.0		<50.0		<50.0
	12/1/2022	9-10	26.7		<0.00200	*- *1	<0.00200	*- *1	0.0024		0.0118	*+ *1	0.0142		<49.9		<49.9		<49.9		<49.9

NOTES:
ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
2 Method 8021B
3 Method 8015M

**** Bold and highlighted values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.***

APPENDIX A
C-141 Forms

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ETC Texas Pipeline LTD	OGRID 371183	
Contact Name	Lyanne Lara	Contact Telephone	432-425-5710
Contact email	Lyanne.Lara@energytransfer.com	Incident # *(assigned by OCD)*	*nAPP2206954187*
Contact mailing address 600 N. Marienfeld St. Suite 700 Midland, TX 79701			

Location of Release Source

Latitude 32.2411479 Longitude -103.6229372
(NAD 83 in decimal degrees to 5 decimal places)

Site Name ETC Shurvesa Interconnect	Site Type Crude Interconnect
Date Release Discovered 03/10/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	S1	T24S	R32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name: Bureau of Land Management*_____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 22.7	Volume Recovered (bbls) 3
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe)	Volume/Weight Released (provide units) 270 gallons	Volume/Weight Recovered (provide units)

Cause of Release
The chemical hose had come apart from the fitting above the valve on the pipeline side of the pig launcher. A check valve also leaked due to not being sealed 100%. The valve was closed with leak source isolated. A vacuum truck was onsite to recover what could be picked up. Remediation is underway. Corrosion Inhibitor 330 gallon tank had just been filled prior to the spill; at the time of the spill, there was only 60 gallons remaining in tank – estimated 270 gallons released.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Lyanne Lara Title: Environmental Specialist

Signature: Lyanne Lara Date: 03/24/2022

email: lyanne.lara@energytransfer.com Telephone: 432-425-5710

OCD Only

Received by: Date:

Liquid Spill in Soil Workbook												
Facility Name:	Shurvesa Interconnect											
Spill Date:	3/10/2022											
Liquid Recovered (vacuum truck)	0	(bbls)										
Description	Area "A"	Area "B"	Area "C"	Area "D"	Area "E"	Area "F"	Area "G"	Area "H"	Area "I"	Area "J"	Area "K"	Area "L"
Length (ft.)	10	6	67									
Width (ft.)	21	14	3									
Depth (in.)	24.00	12.00	8.00									
Depth (feet)	2.00	1.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ft3 Total Soil	420.00	84	134	0	0	0	0	0	0	0	0	0
% Saturated Soil	100%	100%	100%									
ft3 of 100% Saturated Soil	420.00	84	134	0	0	0	0	0	0	0	0	0
Porosity Factor	Sand	Sand	Sand									
Area Spill Volume (bbls in soil)	15.0	3.0	4.8									
Total Spill from all areas (in Soil)	0.0	(bbls)										
Total Spill Volume from all areas.	22.7	(bbls)	Net Spill volume	22.7	(bbls)	954.44	(Gallons)					

Corrosion Inhibitor – 330 gallon tank had just been filled prior to the spill; at the time of the spill, there was only 60 gallons remaining in tank – estimated 270 gallons released

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

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 92886
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/12/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2206954187
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2206954187
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: Lyanne Lane Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 01/09/2023

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2206954187
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: Lyonne Lane Date: _____

email: _____ Telephone: _____

OCD Only

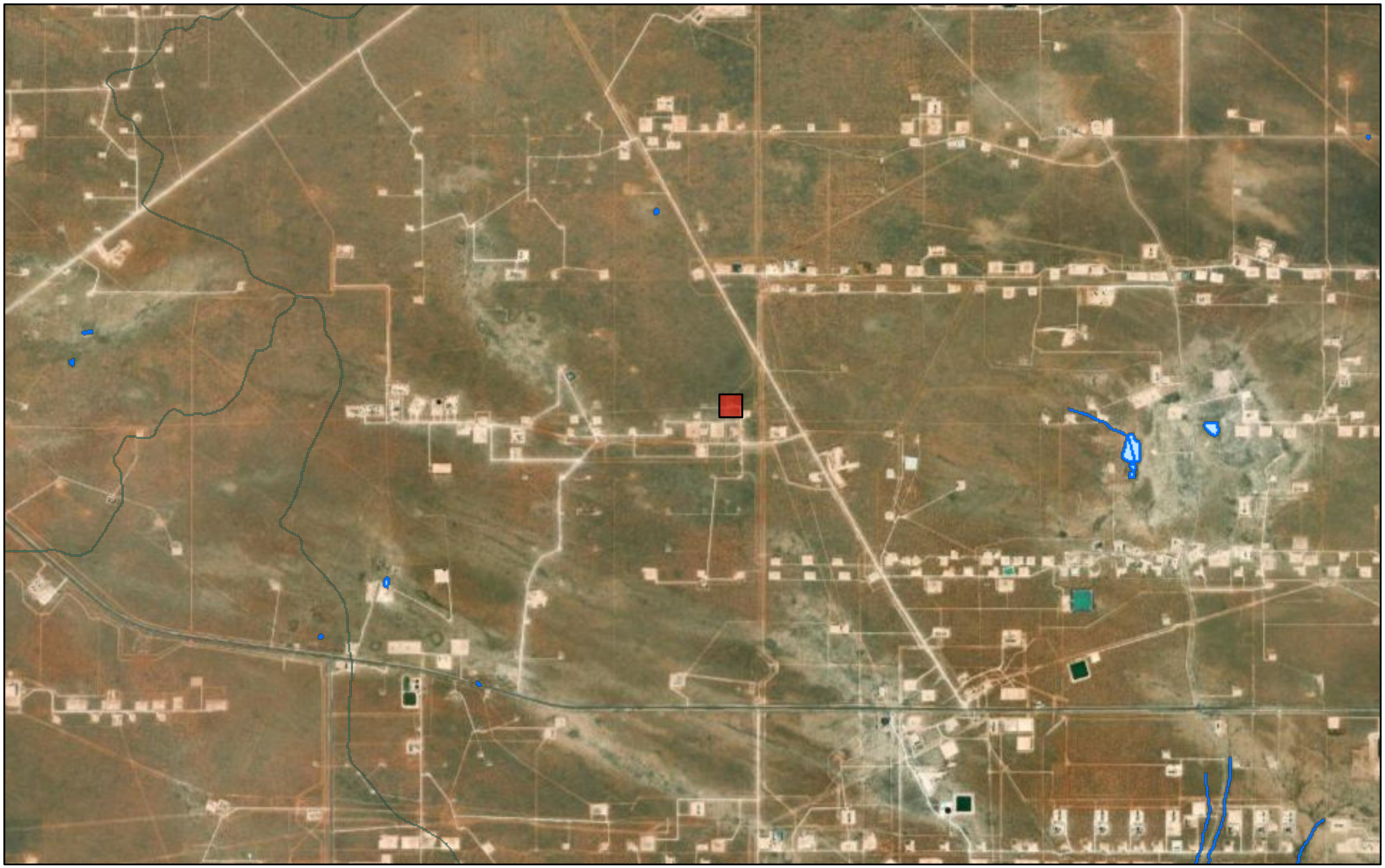
Received by: Jocelyn Harimon Date: 01/09/2023

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

Signature: Jennifer Nobui Date: 01/31/2023

APPENDIX B
Site Characterization Data

New Mexico NFHL Data



October 31, 2022

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

Karst Potential map

Energy Transfer - Shurvessa Interconnect Release

212C-MD-02921	TETRA TECH	**LOG OF BORING DTW**	Page 1 of 1

Project Name: Shurvessa Interconnect Release

Borehole Location GPS Coordinate: 32.241447, -103.623363 | Surface Elevation: ft

Borehole Number: GWDB | Borehole Diameter (in.): | Date Started: 12/1/2022 | Date Finished: 12/1/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
0												**-SM-** TOPSOIL (Sand): Reddish brown, loose, dry	4	
5												**-SM-** SAND: Brown, loose, dry	8	
10												**-SM-** SAND: Brown to reddish brown, medium dense, dry, moderately cemented, with frequent clay seams	20	
15														
20												**-SM-** SAND: Brown, very loose, dry, trace gravel		
25														
30														
35												-- Transitions to with occasional cemented layers		
40														
45														
50														
55													55	

Bottom of borehole at 55.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Surface elevation is an estimated value from Google Earth data.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 629735.649 **Northing (Y):** 3567996.868 **Radius:** 800

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	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01932	C	ED	3	1	12	24S	32E	628633	3567188*		1367	492		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 629735.649 **Northing (Y):** 3567996.868 **Radius:** 1600

***UTM location was derived from PLSS - see Help**

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	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01932	C	ED		3	1	12	24S	32E	628633	3567188*	1367	492		
C 04551 POD1	CUB	LE	4	4	3	31	23S	33E	630671	3569556	1818			
C 03591 POD1	CUB	LE	2	1	4	05	24S	33E	632731	3568518	3040			
C 03565 POD3	CUB	LE		3	4	08	24S	33E	632763	3566546	3357		1533	
C 03527 POD1	C	LE	1	2	3	03	24S	32E	625770	3568487	3996	500		
C 03528 POD1	C	LE	1	1	2	15	24S	32E	626040	3566129	4140	541	133	408

Average Depth to Water: **833 feet**

Minimum Depth: **133 feet**

Maximum Depth: **1533 feet**

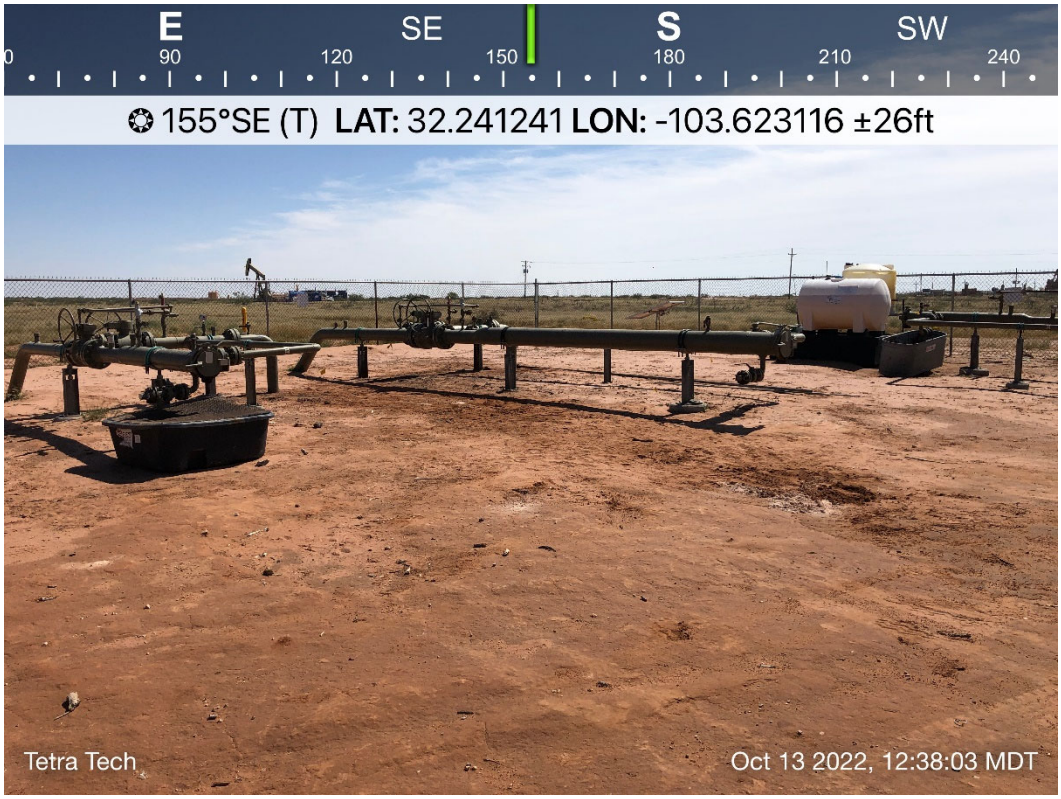
Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 629735.649 **Northing (Y):** 3567996.868 **Radius:** 4200

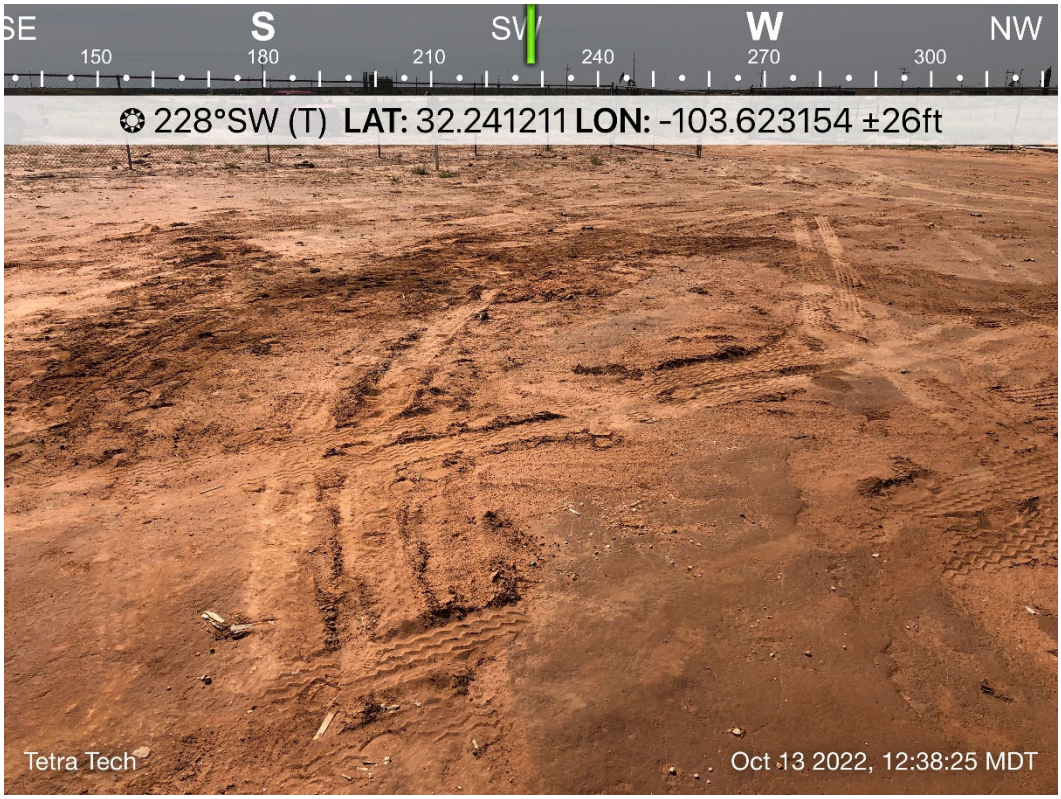
***UTM location was derived from PLSS - see Help**

APPENDIX C
Photographic Documentation

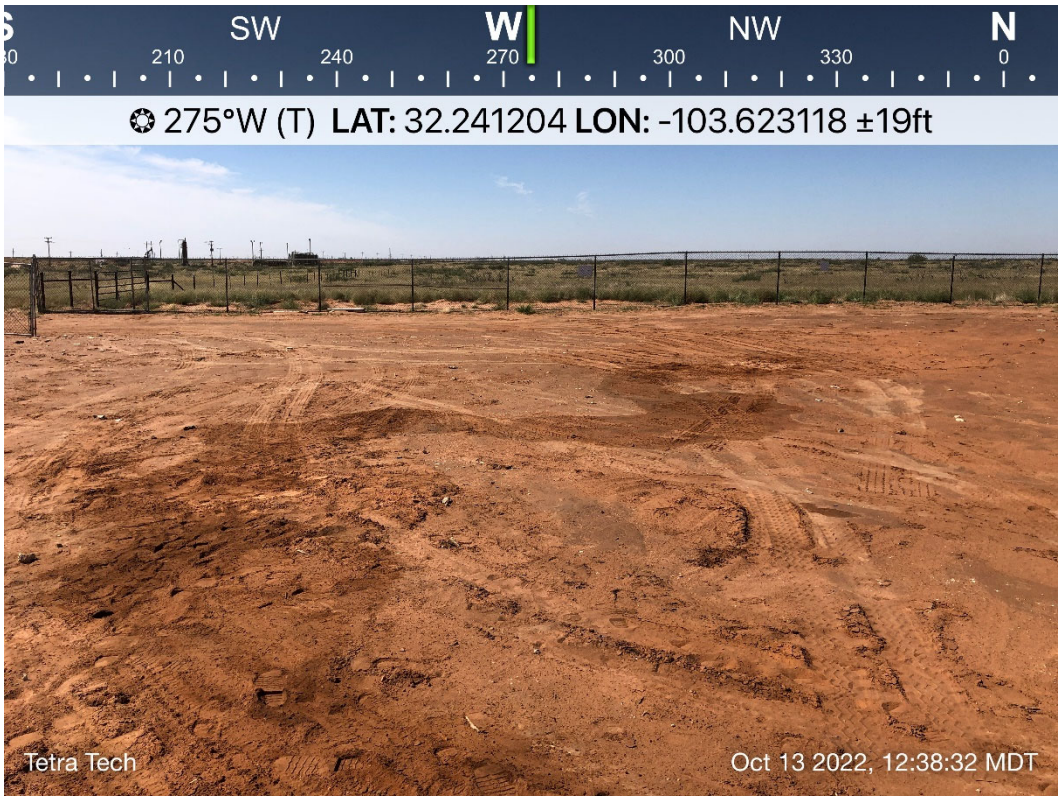


TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View southeast towards the release source point and release area.	1
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022

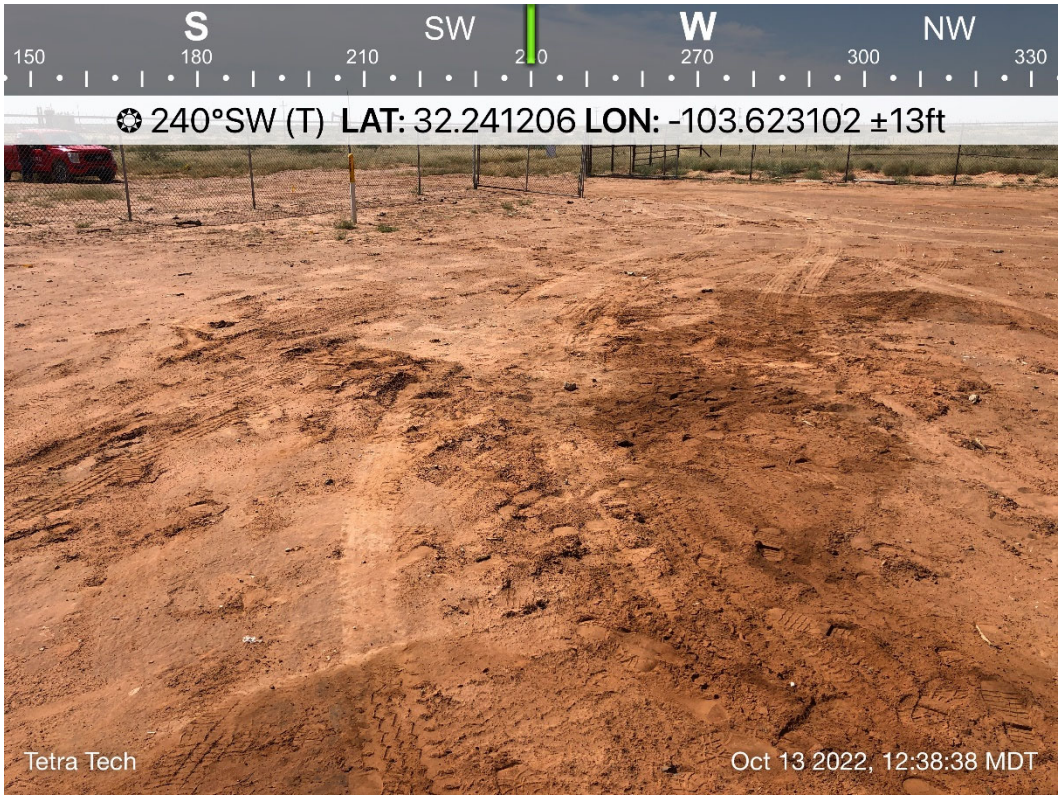
TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View towards the south of the release extent on pad.	2
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



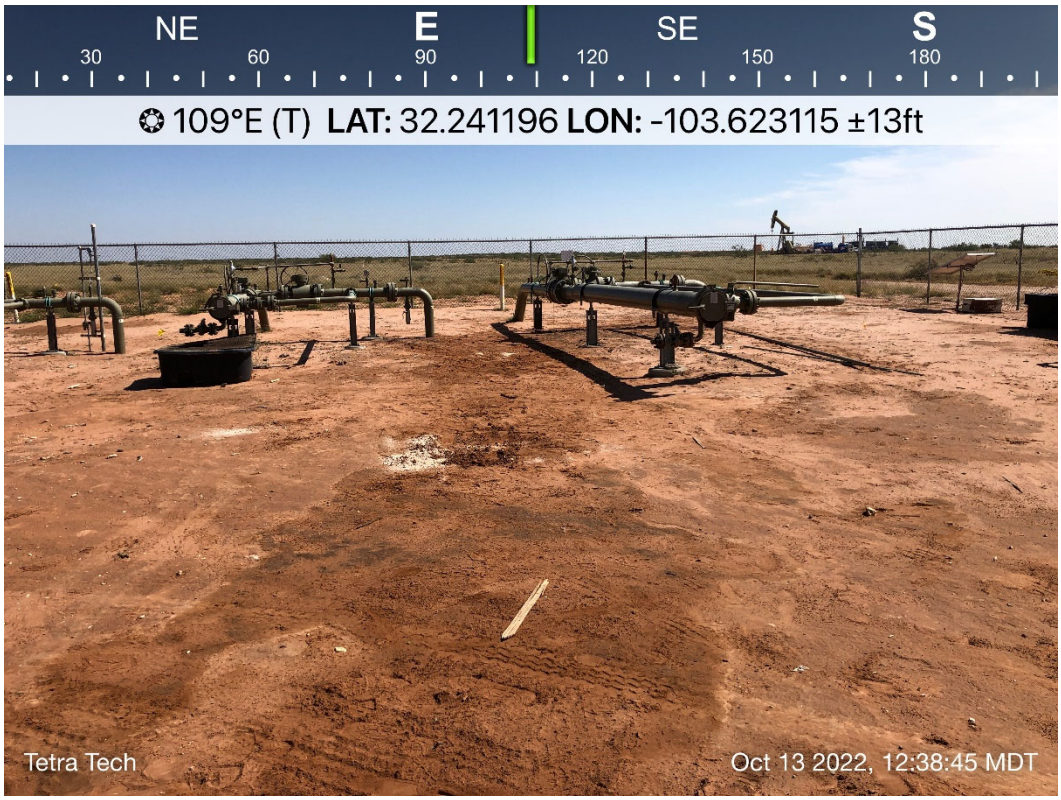
TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View southwest of the release extent on pad.	3
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



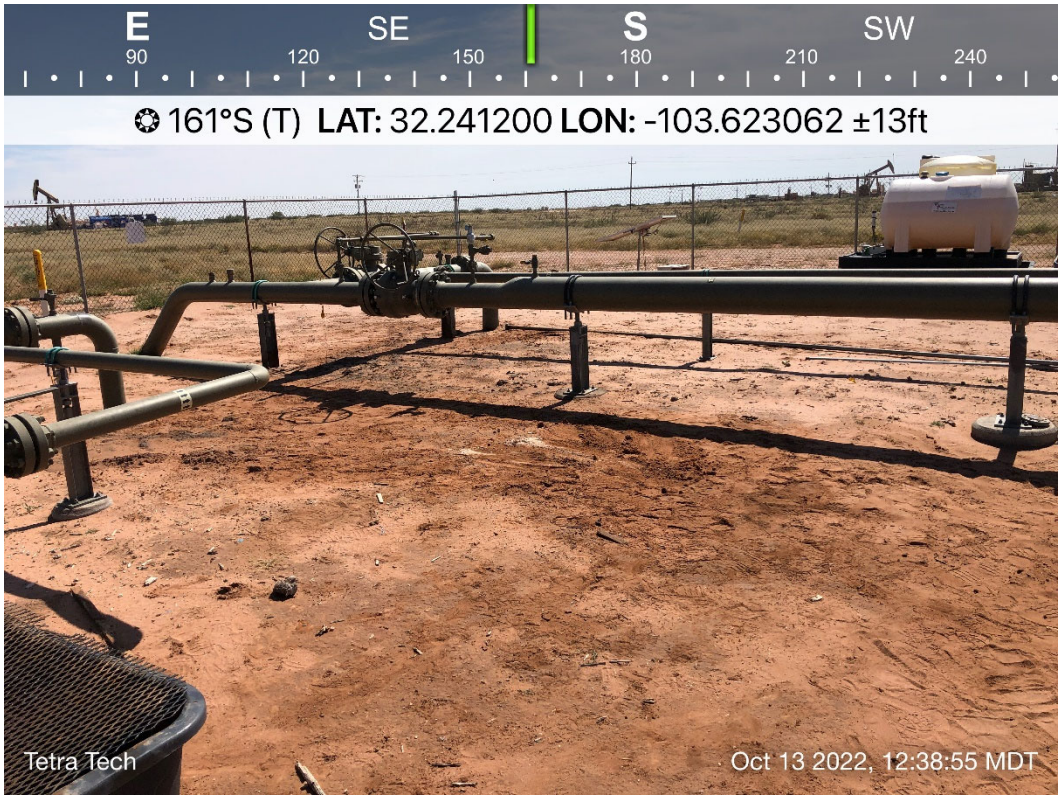
TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View west of the release extent on pad.	4
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View southwest of the release extent on pad.	5
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022

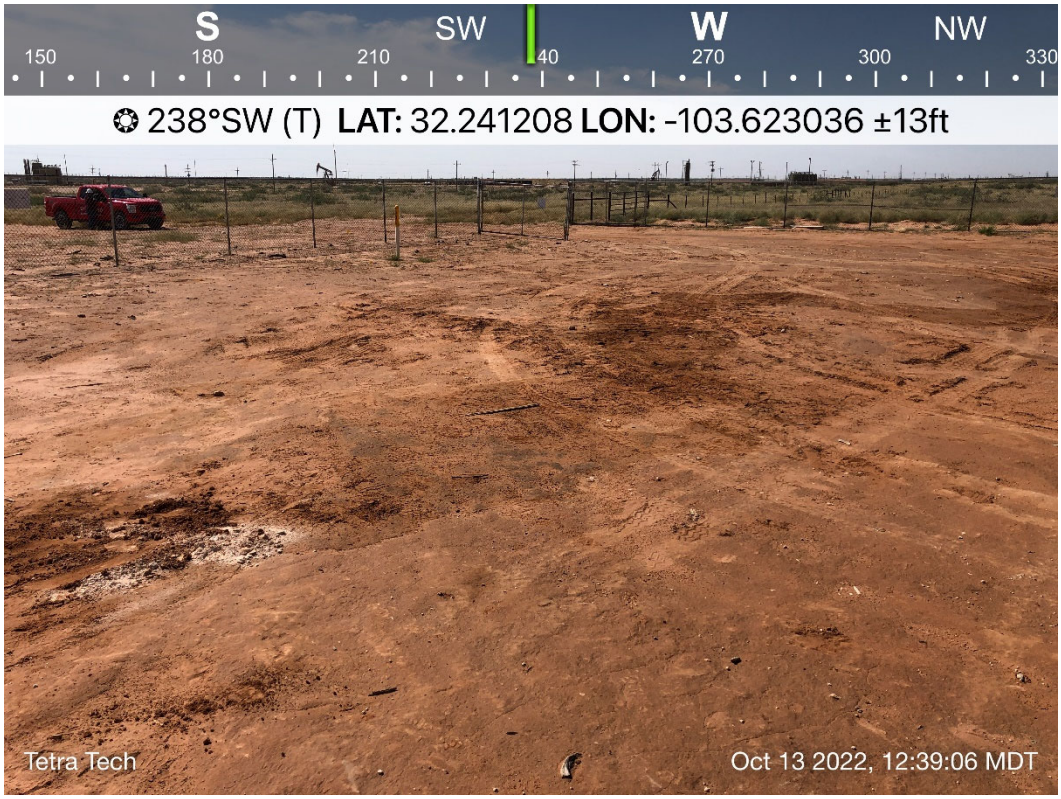


TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View southeast towards the release source point and release area.	6
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022

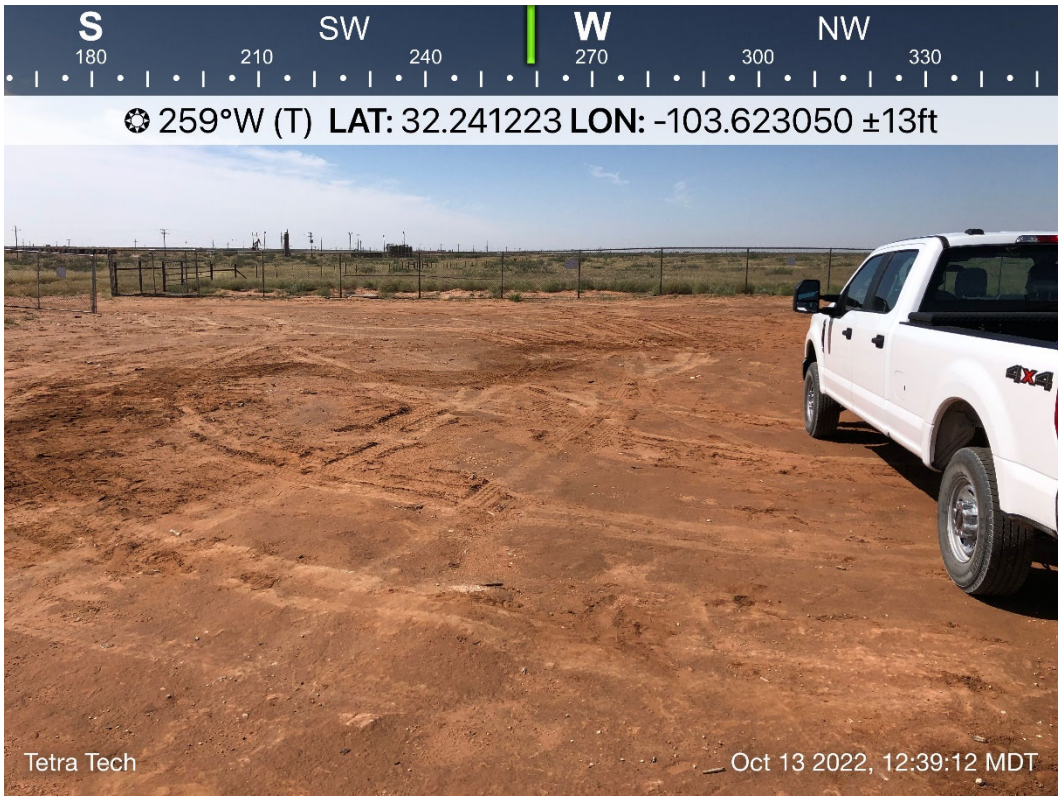


TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View southeast towards the release source point and release area.	7
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022

TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View south near the release source point and release area.	8
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View southwest towards of the release area.	9
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02921	DESCRIPTION	View west towards of the release area.	10
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022

APPENDIX D
Laboratory Analytical Data

eurofins | Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 880-20390-1
Laboratory Sample Delivery Group: Lea County, NM
Client Project/Site: ETC Shurvesa Interconnect

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

Attn: Joe Tyler

JKramer

Authorized for release by:
10/28/2022 12:23:52 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.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: ETC Shurvesa Interconnect

Laboratory Job ID: 880-20390-1
SDG: Lea County, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-20390-1
Project/Site: ETC Shurvesa Interconnect SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc. Job ID: 880-20390-1
Project/Site: ETC Shurvesa Interconnect SDG: Lea County, NM

Job ID: 880-20390-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-20390-1

Receipt
The samples were received on 10/14/2022 11:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: AH-1 (0'-1') (880-20390-1), AH-2 (0'-1') (880-20390-2), AH-3 (0'-1') (880-20390-3), AH-4 (0'-1') (880-20390-4), AH-5 (0'-1') (880-20390-5), AH-5 (1'-2') (880-20390-6), AH-5 (2'-3') (880-20390-7), AH-5 (3'-4') (880-20390-8), AH-5 (4'-5') (880-20390-9), AH-5 (5'-6') (880-20390-10), AH-6 (0'-1') (880-20390-11), AH-6 (1'-2') (880-20390-12), AH-6 (2'-3') (880-20390-13), AH-6 (3'-4') (880-20390-14), AH-6 (4'-5') (880-20390-15), AH-6 (5'-6') (880-20390-16), AH-7 (0'-1') (880-20390-17), AH-7 (1'-2') (880-20390-18), AH-7 (2'-3') (880-20390-19), AH-7 (3'-4') (880-20390-20), AH-7 (4'-5') (880-20390-21), AH-7 (5'-6') (880-20390-22), AH-7 (6'-7') (880-20390-23), AH-7 (7'-8') (880-20390-24), AH-7 (8'-9') (880-20390-25), AH-7 (9'-10') (880-20390-26), AH-8 (0'-1') (880-20390-27), AH-8 (1'-2') (880-20390-28), AH-8 (2'-3') (880-20390-29), AH-8 (3'-4') (880-20390-30), AH-8 (4'-5') (880-20390-31), AH-8 (5'-6') (880-20390-32), AH-8 (6'-7') (880-20390-33) and AH-8 (7'-8') (880-20390-34).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-37155 and analytical batch 880-37264 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-5 (0'-1') (880-20390-5) and AH-6 (0'-1') (880-20390-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-5 (3'-4') (880-20390-8) and AH-6 (1'-2') (880-20390-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: AH-6 (2'-3') (880-20390-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: AH-7 (0'-1') (880-20390-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-7 (1'-2') (880-20390-18), AH-7 (2'-3') (880-20390-19), AH-7 (3'-4') (880-20390-20) and AH-8 (1'-2') (880-20390-28). 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 880-37155 and analytical batch 880-37264 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 / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-37393 and analytical batch 880-37450 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: AH-5 (2'-3') (880-20390-7), AH-5 (3'-4') (880-20390-8), AH-6 (0'-1') (880-20390-11) and AH-6 (1'-2') (880-20390-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-7 (0'-1') (880-20390-17), AH-7 (1'-2') (880-20390-18) and AH-7 (2'-3') (880-20390-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis

Case Narrative

Client: Tetra Tech, Inc. Job ID: 880-20390-1
Project/Site: ETC Shurvesa Interconnect SDG: Lea County, NM

Job ID: 880-20390-1 (Continued)

Laboratory: Eurofins Midland (Continued)

was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-7 (3'-4') (880-20390-20), AH-7 (4'-5') (880-20390-21) and AH-8 (0'-1') (880-20390-27). 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 and precision for preparation batch 880-37517 and analytical batch 880-37728 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-20328-A-8-E MS) and (880-20328-A-8-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36937 and analytical batch 880-36924 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.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-36996 and analytical batch 880-37013 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-36992 and analytical batch 880-36920 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: AH-5 (1'-2') (880-20390-6) and AH-5 (2'-3') (880-20390-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: AH-6 (2'-3') (880-20390-13), AH-7 (0'-1') (880-20390-17), AH-7 (1'-2') (880-20390-18) and AH-7 (2'-3') (880-20390-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: AH-7 (4'-5') (880-20390-21) and AH-8 (0'-1') (880-20390-27). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The spiking solution was inadvertently omitted during the extraction process for the laboratory control sample (LCS) associated with preparation batch 880-37769; therefore, percent recoveries are unavailable. The LCSD and MS/MSD will show acceptability for the batch, therefore data was qualified and reported.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-38028/2-A) and (LCSD 880-38028/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-20837-A-21-F MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-38028 and analytical batch 880-37972 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.

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Job ID: 880-20390-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-1
Matrix: Solid
Date Collected: 10/13/22 12:00
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		10/17/22 12:44	10/19/22 21:46	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		10/17/22 12:44	10/19/22 21:46	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		10/17/22 12:44	10/19/22 21:46	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		10/17/22 12:44	10/19/22 21:46	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		10/17/22 12:44	10/19/22 21:46	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		10/17/22 12:44	10/19/22 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/17/22 12:44*	*10/19/22 21:46*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*10/17/22 12:44*	*10/19/22 21:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/14/22 15:46	10/14/22 20:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 15:46	10/14/22 20:40	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/22 15:46	10/14/22 20:40	1
Total TPH	<49.8	U	49.8		mg/Kg		10/14/22 15:46	10/14/22 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*10/14/22 15:46*	*10/14/22 20:40*	*1*
o-Terphenyl	*103*		*70 - 130*	*10/14/22 15:46*	*10/14/22 20:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.2**		4.99		mg/Kg			10/18/22 04:34	1

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

Lab Sample ID: 880-20390-2
Matrix: Solid
Date Collected: 10/13/22 12:10
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:44	10/19/22 22:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:44	10/19/22 22:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:44	10/19/22 22:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/22 12:44	10/19/22 22:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/22 12:44	10/19/22 22:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/22 12:44	10/19/22 22:06	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-2
Matrix: Solid
Date Collected: 10/13/22 12:10
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/17/22 12:44	10/19/22 22:06	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/17/22 12:44	10/19/22 22:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 21:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 21:44	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 21:44	1
Total TPH	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	10/14/22 15:46	10/14/22 21:44	1
o-Terphenyl	125		70 - 130	10/14/22 15:46	10/14/22 21:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		5.02		mg/Kg			10/18/22 04:49	1

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

Lab Sample ID: 880-20390-3
Matrix: Solid
Date Collected: 10/13/22 12:20
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/19/22 22:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/19/22 22:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/19/22 22:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/17/22 12:44	10/19/22 22:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/19/22 22:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/17/22 12:44	10/19/22 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/17/22 12:44	10/19/22 22:27	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/17/22 12:44	10/19/22 22:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/20/22 11:21	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-3
Matrix: Solid
Date Collected: 10/13/22 12:20
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/14/22 15:46	10/14/22 22:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/22 15:46	10/14/22 22:06	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/22 15:46	10/14/22 22:06	1
Total TPH	<49.8	U	49.8		mg/Kg		10/14/22 15:46	10/14/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/14/22 15:46*	*10/14/22 22:06*	*1*
o-Terphenyl	*111*		*70 - 130*	*10/14/22 15:46*	*10/14/22 22:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.4**		5.03		mg/Kg			10/18/22 04:54	1

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

Lab Sample ID: 880-20390-4
Matrix: Solid
Date Collected: 10/13/22 12:30
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 12:44	10/19/22 22:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 12:44	10/19/22 22:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 12:44	10/19/22 22:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 12:44	10/19/22 22:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 12:44	10/19/22 22:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 12:44	10/19/22 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*10/17/22 12:44*	*10/19/22 22:47*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/17/22 12:44*	*10/19/22 22:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 22:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 22:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 22:27	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-4
Matrix: Solid
Date Collected: 10/13/22 12:30
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*10/14/22 15:46*	*10/14/22 22:27*	*1*
o-Terphenyl	*127*		*70 - 130*	*10/14/22 15:46*	*10/14/22 22:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.0**		5.04		mg/Kg			10/18/22 04:59	1

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

Lab Sample ID: 880-20390-5
Matrix: Solid
Date Collected: 10/13/22 12:40
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0757**		0.0403		mg/Kg		10/17/22 12:44	10/19/22 23:28	20
Toluene	**0.207**		0.0403		mg/Kg		10/17/22 12:44	10/19/22 23:28	20
Ethylbenzene	**0.360**		0.0403		mg/Kg		10/17/22 12:44	10/19/22 23:28	20
m-Xylene & p-Xylene	**2.60**		0.0806		mg/Kg		10/17/22 12:44	10/19/22 23:28	20
o-Xylene	**1.13**		0.0403		mg/Kg		10/17/22 12:44	10/19/22 23:28	20
Xylenes, Total	**3.73**		0.0806		mg/Kg		10/17/22 12:44	10/19/22 23:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*190*	*S1+*	*70 - 130*	*10/17/22 12:44*	*10/19/22 23:28*	*20*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/17/22 12:44*	*10/19/22 23:28*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**4.37**		0.0806		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**6430**		49.9		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**201**		49.9		mg/Kg		10/14/22 15:46	10/14/22 23:33	1
Diesel Range Organics (Over C10-C28)	**5620**		49.9		mg/Kg		10/14/22 15:46	10/14/22 23:33	1
Oil Range Organics (Over C28-C36)	**607**		49.9		mg/Kg		10/14/22 15:46	10/14/22 23:33	1
Total TPH	**6430**		49.9		mg/Kg		10/14/22 15:46	10/14/22 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*10/14/22 15:46*	*10/14/22 23:33*	*1*
o-Terphenyl	*126*		*70 - 130*	*10/14/22 15:46*	*10/14/22 23:33*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-5
Matrix: Solid
Date Collected: 10/13/22 12:40
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.6		5.04		mg/Kg			10/18/22 05:03	1

Client Sample ID: AH-5 (1'-2')

Lab Sample ID: 880-20390-6
Matrix: Solid
Date Collected: 10/13/22 12:45
Date Received: 10/14/22 11:24
Sample Depth: 1'-2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.389		0.0398		mg/Kg		10/17/22 12:44	10/19/22 23:49	20
Toluene	1.99		0.0398		mg/Kg		10/17/22 12:44	10/19/22 23:49	20
Ethylbenzene	1.64		0.0398		mg/Kg		10/17/22 12:44	10/19/22 23:49	20
m-Xylene & p-Xylene	12.1		0.0797		mg/Kg		10/17/22 12:44	10/19/22 23:49	20
o-Xylene	4.37		0.0398		mg/Kg		10/17/22 12:44	10/19/22 23:49	20
Xylenes, Total	16.5		0.0797		mg/Kg		10/17/22 12:44	10/19/22 23:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*10/17/22 12:44*	*10/19/22 23:49*	*20*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*10/17/22 12:44*	*10/19/22 23:49*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	20.5		0.0797		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6700		49.9		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	868		49.9		mg/Kg		10/14/22 15:46	10/14/22 23:54	1
Diesel Range Organics (Over C10-C28)	5390		49.9		mg/Kg		10/14/22 15:46	10/14/22 23:54	1
Oil Range Organics (Over C28-C36)	443		49.9		mg/Kg		10/14/22 15:46	10/14/22 23:54	1
Total TPH	6700		49.9		mg/Kg		10/14/22 15:46	10/14/22 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/14/22 23:54*	*1*
o-Terphenyl	*124*		*70 - 130*	*10/14/22 15:46*	*10/14/22 23:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.7		4.97		mg/Kg			10/18/22 05:18	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-5 (2'-3')

Lab Sample ID: 880-20390-7
Matrix: Solid
Date Collected: 10/13/22 12:50
Date Received: 10/14/22 11:24
Sample Depth: 2'-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.838		0.0401		mg/Kg		10/17/22 12:44	10/20/22 00:09	20
Toluene	1.53		0.0401		mg/Kg		10/17/22 12:44	10/20/22 00:09	20
Ethylbenzene	3.65		0.0401		mg/Kg		10/17/22 12:44	10/20/22 00:09	20
m-Xylene & p-Xylene	35.9		0.399		mg/Kg		10/20/22 10:33	10/21/22 23:07	100
o-Xylene	12.3		0.200		mg/Kg		10/20/22 10:33	10/21/22 23:07	100
Xylenes, Total	48.2		0.399		mg/Kg		10/20/22 10:33	10/21/22 23:07	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/17/22 12:44*	*10/20/22 00:09*	*20*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/17/22 12:44*	*10/20/22 00:09*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	54.2		0.399		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8180		50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1540		50.0		mg/Kg		10/14/22 15:46	10/15/22 00:16	1
Diesel Range Organics (Over C10-C28)	6140		50.0		mg/Kg		10/14/22 15:46	10/15/22 00:16	1
Oil Range Organics (Over C28-C36)	498		50.0		mg/Kg		10/14/22 15:46	10/15/22 00:16	1
Total TPH	8180		50.0		mg/Kg		10/14/22 15:46	10/15/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/15/22 00:16*	*1*
o-Terphenyl	*123*		*70 - 130*	*10/14/22 15:46*	*10/15/22 00:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.4		5.00		mg/Kg			10/18/22 05:23	1

Client Sample ID: AH-5 (3'-4')

Lab Sample ID: 880-20390-8
Matrix: Solid
Date Collected: 10/13/22 12:55
Date Received: 10/14/22 11:24
Sample Depth: 3'-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.46		0.0398		mg/Kg		10/17/22 12:44	10/20/22 00:29	20
Toluene	7.91		0.0398		mg/Kg		10/17/22 12:44	10/20/22 00:29	20
Ethylbenzene	4.64		0.0398		mg/Kg		10/17/22 12:44	10/20/22 00:29	20
m-Xylene & p-Xylene	37.5		0.401		mg/Kg		10/20/22 10:33	10/21/22 23:28	100
o-Xylene	12.8		0.200		mg/Kg		10/20/22 10:33	10/21/22 23:28	100
Xylenes, Total	50.3		0.401		mg/Kg		10/20/22 10:33	10/21/22 23:28	100

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-5 (3'-4')

Lab Sample ID: 880-20390-8
Matrix: Solid
Date Collected: 10/13/22 12:55
Date Received: 10/14/22 11:24
Sample Depth: 3'-4'

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*10/17/22 12:44*	*10/20/22 00:29*	*20*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/17/22 12:44*	*10/20/22 00:29*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**64.3**		0.401		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5840**		50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1160**		50.0		mg/Kg		10/14/22 15:46	10/15/22 00:38	1
Diesel Range Organics (Over C10-C28)	**4330**		50.0		mg/Kg		10/14/22 15:46	10/15/22 00:38	1
Oil Range Organics (Over C28-C36)	**354**		50.0		mg/Kg		10/14/22 15:46	10/15/22 00:38	1
Total TPH	**5840**		50.0		mg/Kg		10/14/22 15:46	10/15/22 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*10/14/22 15:46*	*10/15/22 00:38*	*1*
o-Terphenyl	*114*		*70 - 130*	*10/14/22 15:46*	*10/15/22 00:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.9**		5.05		mg/Kg			10/18/22 05:28	1

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

Lab Sample ID: 880-20390-9
Matrix: Solid
Date Collected: 10/13/22 13:00
Date Received: 10/14/22 11:24
Sample Depth: 4'-5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0503	U	0.0503		mg/Kg		10/25/22 10:30	10/25/22 19:31	25
Toluene	**4.22**		0.0503		mg/Kg		10/25/22 10:30	10/25/22 19:31	25
Ethylbenzene	**3.64**		0.0503		mg/Kg		10/25/22 10:30	10/25/22 19:31	25
m-Xylene & p-Xylene	**19.9**		0.101		mg/Kg		10/25/22 10:30	10/25/22 19:31	25
o-Xylene	**8.07**		0.0503		mg/Kg		10/25/22 10:30	10/25/22 19:31	25
Xylenes, Total	**28.0**		0.101		mg/Kg		10/25/22 10:30	10/25/22 19:31	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/25/22 10:30*	*10/25/22 19:31*	*25*
1,4-Difluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*10/25/22 10:30*	*10/25/22 19:31*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**35.8**		0.101		mg/Kg			10/26/22 09:33	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-9
Matrix: Solid
Date Collected: 10/13/22 13:00
Date Received: 10/14/22 11:24
Sample Depth: 4'-5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4480		50.0		mg/Kg			10/26/22 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1400	*- *1	50.0		mg/Kg		10/25/22 08:30	10/25/22 19:14	1
Diesel Range Organics (Over C10-C28)	3080	*- *1	50.0		mg/Kg		10/25/22 08:30	10/25/22 19:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/25/22 08:30	10/25/22 19:14	1
Total TPH	4480		50.0		mg/Kg		10/25/22 08:30	10/25/22 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*10/25/22 08:30*	*10/25/22 19:14*	*1*
o-Terphenyl	*109*		*70 - 130*	*10/25/22 08:30*	*10/25/22 19:14*	*1*

Client Sample ID: AH-5 (5'-6')

Lab Sample ID: 880-20390-10
Matrix: Solid
Date Collected: 10/13/22 13:05
Date Received: 10/14/22 11:24
Sample Depth: 5'-6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6400		49.9		mg/Kg			10/28/22 09:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1340		49.9		mg/Kg		10/27/22 15:00	10/28/22 05:10	1
Diesel Range Organics (Over C10-C28)	4550		49.9		mg/Kg		10/27/22 15:00	10/28/22 05:10	1
OII Range Organics (Over C28-C36)	507		49.9		mg/Kg		10/27/22 15:00	10/28/22 05:10	1
Total TPH	6400		49.9		mg/Kg		10/27/22 15:00	10/28/22 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*10/27/22 15:00*	*10/28/22 05:10*	*1*
o-Terphenyl	*116*		*70 - 130*	*10/27/22 15:00*	*10/28/22 05:10*	*1*

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

Lab Sample ID: 880-20390-11
Matrix: Solid
Date Collected: 10/13/22 13:10
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00428		0.00202		mg/Kg		10/17/22 12:44	10/19/22 23:08	1
Toluene	0.0172		0.00202		mg/Kg		10/17/22 12:44	10/19/22 23:08	1
Ethylbenzene	0.106		0.00202		mg/Kg		10/17/22 12:44	10/19/22 23:08	1
m-Xylene & p-Xylene	8.75		0.201		mg/Kg		10/20/22 10:33	10/21/22 23:48	50
o-Xylene	3.23		0.100		mg/Kg		10/20/22 10:33	10/21/22 23:48	50
Xylenes, Total	12.0		0.201		mg/Kg		10/20/22 10:33	10/21/22 23:48	50

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-11
Matrix: Solid
Date Collected: 10/13/22 13:10
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130	10/17/22 12:44	10/19/22 23:08	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/17/22 12:44	10/19/22 23:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	12.1		0.201		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6320		49.8		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	453		49.8		mg/Kg		10/14/22 15:46	10/15/22 01:21	1
Diesel Range Organics (Over C10-C28)	5310		49.8		mg/Kg		10/14/22 15:46	10/15/22 01:21	1
Oil Range Organics (Over C28-C36)	553		49.8		mg/Kg		10/14/22 15:46	10/15/22 01:21	1
Total TPH	6320		49.8		mg/Kg		10/14/22 15:46	10/15/22 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	10/14/22 15:46	10/15/22 01:21	1
o-Terphenyl	109		70 - 130	10/14/22 15:46	10/15/22 01:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.5		5.05		mg/Kg			10/18/22 05:33	1

Client Sample ID: AH-6 (1'-2')

Lab Sample ID: 880-20390-12
Matrix: Solid
Date Collected: 10/13/22 13:15
Date Received: 10/14/22 11:24
Sample Depth: 1'-2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.345		0.0399		mg/Kg		10/17/22 12:44	10/20/22 00:50	20
Toluene	0.862		0.0399		mg/Kg		10/17/22 12:44	10/20/22 00:50	20
Ethylbenzene	2.60		0.0399		mg/Kg		10/17/22 12:44	10/20/22 00:50	20
m-Xylene & p-Xylene	21.4		0.401		mg/Kg		10/20/22 10:33	10/22/22 00:09	100
o-Xylene	7.86		0.200		mg/Kg		10/20/22 10:33	10/22/22 00:09	100
Xylenes, Total	29.3		0.401		mg/Kg		10/20/22 10:33	10/22/22 00:09	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	10/17/22 12:44	10/20/22 00:50	20
1,4-Difluorobenzene (Surr)	105		70 - 130	10/17/22 12:44	10/20/22 00:50	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	33.1		0.401		mg/Kg			10/20/22 11:21	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-6 (1'-2')

Lab Sample ID: 880-20390-12
Matrix: Solid
Date Collected: 10/13/22 13:15
Date Received: 10/14/22 11:24
Sample Depth: 1'-2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6100		49.8		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	917		49.8		mg/Kg		10/14/22 15:46	10/15/22 01:42	1
Diesel Range Organics (Over C10-C28)	4760		49.8		mg/Kg		10/14/22 15:46	10/15/22 01:42	1
Oil Range Organics (Over C28-C36)	427		49.8		mg/Kg		10/14/22 15:46	10/15/22 01:42	1
Total TPH	6100		49.8		mg/Kg		10/14/22 15:46	10/15/22 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*10/14/22 15:46*	*10/15/22 01:42*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/14/22 15:46*	*10/15/22 01:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.0		5.02		mg/Kg			10/18/22 05:37	1

Client Sample ID: AH-6 (2'-3')

Lab Sample ID: 880-20390-13
Matrix: Solid
Date Collected: 10/13/22 13:20
Date Received: 10/14/22 11:24
Sample Depth: 2'-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0111		0.00199		mg/Kg		10/17/22 12:44	10/20/22 02:12	1
Toluene	0.0670		0.00199		mg/Kg		10/17/22 12:44	10/20/22 02:12	1
Ethylbenzene	0.298		0.00199		mg/Kg		10/17/22 12:44	10/20/22 02:12	1
m-Xylene & p-Xylene	19.8		0.797		mg/Kg		10/20/22 10:33	10/22/22 00:29	200
o-Xylene	7.20		0.398		mg/Kg		10/20/22 10:33	10/22/22 00:29	200
Xylenes, Total	27.0		0.797		mg/Kg		10/20/22 10:33	10/22/22 00:29	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*273*	*S1+*	*70 - 130*	*10/17/22 12:44*	*10/20/22 02:12*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*10/17/22 12:44*	*10/20/22 02:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	27.4		0.797		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5550		50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	899		50.0		mg/Kg		10/14/22 15:46	10/15/22 02:04	1
Diesel Range Organics (Over C10-C28)	4290		50.0		mg/Kg		10/14/22 15:46	10/15/22 02:04	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-6 (2'-3')

Lab Sample ID: 880-20390-13
Matrix: Solid
Date Collected: 10/13/22 13:20
Date Received: 10/14/22 11:24
Sample Depth: 2'-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	356		50.0		mg/Kg		10/14/22 15:46	10/15/22 02:04	1
Total TPH	5550		50.0		mg/Kg		10/14/22 15:46	10/15/22 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/15/22 02:04*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/15/22 02:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.7		5.04		mg/Kg			10/18/22 05:42	1

Client Sample ID: AH-6 (3'-4')

Lab Sample ID: 880-20390-14
Matrix: Solid
Date Collected: 10/13/22 13:25
Date Received: 10/14/22 11:24
Sample Depth: 3'-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/20/22 02:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/20/22 02:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/20/22 02:32	1
m-Xylene & p-Xylene	0.0276		0.00401		mg/Kg		10/17/22 12:44	10/20/22 02:32	1
o-Xylene	0.0124		0.00200		mg/Kg		10/17/22 12:44	10/20/22 02:32	1
Xylenes, Total	0.0400		0.00401		mg/Kg		10/17/22 12:44	10/20/22 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/17/22 12:44*	*10/20/22 02:32*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/17/22 12:44*	*10/20/22 02:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0400		0.00401		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 22:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 22:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 22:49	1
Total TPH	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*10/14/22 15:46*	*10/14/22 22:49*	*1*
o-Terphenyl	*126*		*70 - 130*	*10/14/22 15:46*	*10/14/22 22:49*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-6 (3'-4')

Lab Sample ID: 880-20390-14
Matrix: Solid
Date Collected: 10/13/22 13:25
Date Received: 10/14/22 11:24
Sample Depth: 3'-4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.1		5.00		mg/Kg			10/18/22 05:57	1

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

Lab Sample ID: 880-20390-17
Matrix: Solid
Date Collected: 10/13/22 14:00
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		10/17/22 12:44	10/20/22 03:13	20
Toluene	5.43		0.0402		mg/Kg		10/17/22 12:44	10/20/22 03:13	20
Ethylbenzene	5.79		0.0402		mg/Kg		10/17/22 12:44	10/20/22 03:13	20
m-Xylene & p-Xylene	18.5		0.399		mg/Kg		10/20/22 10:33	10/22/22 00:50	100
o-Xylene	7.90		0.0402		mg/Kg		10/17/22 12:44	10/20/22 03:13	20
Xylenes, Total	24.9		0.399		mg/Kg		10/20/22 10:33	10/22/22 00:50	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*188*	*S1+*	*70 - 130*	*10/17/22 12:44*	*10/20/22 03:13*	*20*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/17/22 12:44*	*10/20/22 03:13*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	37.6		0.399		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8450		50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	757		50.0		mg/Kg		10/14/22 15:46	10/15/22 02:26	1
Diesel Range Organics (Over C10-C28)	7070		50.0		mg/Kg		10/14/22 15:46	10/15/22 02:26	1
Oil Range Organics (Over C28-C36)	619		50.0		mg/Kg		10/14/22 15:46	10/15/22 02:26	1
Total TPH	8450		50.0		mg/Kg		10/14/22 15:46	10/15/22 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/15/22 02:26*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/15/22 02:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		5.01		mg/Kg			10/18/22 06:02	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-7 (1'-2')

Lab Sample ID: 880-20390-18
Matrix: Solid
Date Collected: 10/13/22 14:05
Date Received: 10/14/22 11:24
Sample Depth: 1'-2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.584		0.0198		mg/Kg		10/17/22 12:44	10/20/22 04:14	10
Toluene	13.1		0.399		mg/Kg		10/20/22 10:33	10/22/22 01:10	200
Ethylbenzene	9.91		0.399		mg/Kg		10/20/22 10:33	10/22/22 01:10	200
m-Xylene & p-Xylene	33.8		0.798		mg/Kg		10/20/22 10:33	10/22/22 01:10	200
o-Xylene	12.1		0.399		mg/Kg		10/20/22 10:33	10/22/22 01:10	200
Xylenes, Total	45.9		0.798		mg/Kg		10/20/22 10:33	10/22/22 01:10	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*276*	*S1+*	*70 - 130*	*10/17/22 12:44*	*10/20/22 04:14*	*10*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*10/17/22 12:44*	*10/20/22 04:14*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	69.5		0.798		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7850		49.8		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1150		49.8		mg/Kg		10/14/22 15:46	10/15/22 02:48	1
Diesel Range Organics (Over C10-C28)	6180		49.8		mg/Kg		10/14/22 15:46	10/15/22 02:48	1
Oil Range Organics (Over C28-C36)	515		49.8		mg/Kg		10/14/22 15:46	10/15/22 02:48	1
Total TPH	7850		49.8		mg/Kg		10/14/22 15:46	10/15/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/15/22 02:48*	*1*
o-Terphenyl	*121*		*70 - 130*	*10/14/22 15:46*	*10/15/22 02:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		5.04		mg/Kg			10/18/22 06:16	1

Client Sample ID: AH-7 (2'-3')

Lab Sample ID: 880-20390-19
Matrix: Solid
Date Collected: 10/13/22 14:10
Date Received: 10/14/22 11:24
Sample Depth: 2'-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.701		0.0398		mg/Kg		10/17/22 12:44	10/20/22 04:35	20
Toluene	22.8		0.398		mg/Kg		10/20/22 10:33	10/22/22 01:31	200
Ethylbenzene	15.2		0.398		mg/Kg		10/20/22 10:33	10/22/22 01:31	200
m-Xylene & p-Xylene	50.5		0.795		mg/Kg		10/20/22 10:33	10/22/22 01:31	200
o-Xylene	16.8		0.398		mg/Kg		10/20/22 10:33	10/22/22 01:31	200
Xylenes, Total	67.3		0.795		mg/Kg		10/20/22 10:33	10/22/22 01:31	200

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-7 (2'-3')

Lab Sample ID: 880-20390-19
Matrix: Solid
Date Collected: 10/13/22 14:10
Date Received: 10/14/22 11:24
Sample Depth: 2'-3'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	10/17/22 12:44	10/20/22 04:35	20
1,4-Difluorobenzene (Surr)	116		70 - 130	10/17/22 12:44	10/20/22 04:35	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	106		0.795		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8010		50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1520		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:09	1
Diesel Range Organics (Over C10-C28)	5980		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:09	1
Oil Range Organics (Over C28-C36)	507		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:09	1
Total TPH	8010		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130	10/14/22 15:46	10/15/22 03:09	1
o-Terphenyl	118		70 - 130	10/14/22 15:46	10/15/22 03:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.0		4.99		mg/Kg			10/18/22 06:21	1

Client Sample ID: AH-7 (3'-4')

Lab Sample ID: 880-20390-20
Matrix: Solid
Date Collected: 10/13/22 14:15
Date Received: 10/14/22 11:24
Sample Depth: 3'-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.833		0.0398		mg/Kg		10/17/22 12:44	10/20/22 04:55	20
Toluene	18.6		0.201		mg/Kg		10/20/22 10:33	10/22/22 05:16	100
Ethylbenzene	13.5		0.201		mg/Kg		10/20/22 10:33	10/22/22 05:16	100
m-Xylene & p-Xylene	43.3		0.402		mg/Kg		10/20/22 10:33	10/22/22 05:16	100
o-Xylene	15.6		0.201		mg/Kg		10/20/22 10:33	10/22/22 05:16	100
Xylenes, Total	58.9		0.402		mg/Kg		10/20/22 10:33	10/22/22 05:16	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130	10/17/22 12:44	10/20/22 04:55	20
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	10/17/22 12:44	10/20/22 04:55	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	91.8		0.402		mg/Kg			10/20/22 11:21	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-7 (3'-4')

Lab Sample ID: 880-20390-20
Matrix: Solid

Date Collected: 10/13/22 14:15
Date Received: 10/14/22 11:24
Sample Depth: 3'-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6140		50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1450		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:31	1
Diesel Range Organics (Over C10-C28)	4300		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:31	1
Oil Range Organics (Over C28-C36)	386		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:31	1
Total TPH	6140		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*10/14/22 15:46*	*10/15/22 03:31*	*1*
o-Terphenyl	*113*		*70 - 130*	*10/14/22 15:46*	*10/15/22 03:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.7		5.00		mg/Kg			10/18/22 06:26	1

Client Sample ID: AH-7 (4'-5')

Lab Sample ID: 880-20390-21
Matrix: Solid

Date Collected: 10/13/22 14:20
Date Received: 10/14/22 11:24
Sample Depth: 4'-5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U	0.201		mg/Kg		10/20/22 10:33	10/22/22 05:37	100
Toluene	14.4		0.201		mg/Kg		10/20/22 10:33	10/22/22 05:37	100
Ethylbenzene	11.7		0.201		mg/Kg		10/20/22 10:33	10/22/22 05:37	100
m-Xylene & p-Xylene	39.0		0.402		mg/Kg		10/20/22 10:33	10/22/22 05:37	100
o-Xylene	15.4		0.201		mg/Kg		10/20/22 10:33	10/22/22 05:37	100
Xylenes, Total	54.4		0.402		mg/Kg		10/20/22 10:33	10/22/22 05:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*204*	*S1+*	*70 - 130*	*10/20/22 10:33*	*10/22/22 05:37*	*100*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/20/22 10:33*	*10/22/22 05:37*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	80.5		0.402		mg/Kg			10/24/22 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7370		50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1440		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:53	1
Diesel Range Organics (Over C10-C28)	5450		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:53	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-7 (4'-5')

Lab Sample ID: 880-20390-21
Matrix: Solid
Date Collected: 10/13/22 14:20
Date Received: 10/14/22 11:24
Sample Depth: 4'-5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	477		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:53	1
Total TPH	7370		50.0		mg/Kg		10/14/22 15:46	10/15/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/15/22 03:53*	*1*
o-Terphenyl	*117*		*70 - 130*	*10/14/22 15:46*	*10/15/22 03:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		5.02		mg/Kg			10/18/22 06:31	1

Client Sample ID: AH-7 (5'-6')

Lab Sample ID: 880-20390-22
Matrix: Solid
Date Collected: 10/13/22 14:25
Date Received: 10/14/22 11:24
Sample Depth: 5'-6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/25/22 10:30	10/25/22 18:50	1
Toluene	0.0870		0.00200		mg/Kg		10/25/22 10:30	10/25/22 18:50	1
Ethylbenzene	0.0679		0.00200		mg/Kg		10/25/22 10:30	10/25/22 18:50	1
m-Xylene & p-Xylene	0.386		0.00401		mg/Kg		10/25/22 10:30	10/25/22 18:50	1
o-Xylene	0.222		0.00200		mg/Kg		10/25/22 10:30	10/25/22 18:50	1
Xylenes, Total	0.608		0.00401		mg/Kg		10/25/22 10:30	10/25/22 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*10/25/22 10:30*	*10/25/22 18:50*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/25/22 10:30*	*10/25/22 18:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.763		0.00401		mg/Kg			10/26/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	480		49.9		mg/Kg			10/26/22 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	91.5	*- *1	49.9		mg/Kg		10/25/22 08:30	10/25/22 19:35	1
Diesel Range Organics (Over C10-C28)	388	*- *1	49.9		mg/Kg		10/25/22 08:30	10/25/22 19:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/25/22 08:30	10/25/22 19:35	1
Total TPH	480		49.9		mg/Kg		10/25/22 08:30	10/25/22 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*10/25/22 08:30*	*10/25/22 19:35*	*1*
o-Terphenyl	*101*		*70 - 130*	*10/25/22 08:30*	*10/25/22 19:35*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-7 (6'-7')

Lab Sample ID: 880-20390-23
Matrix: Solid
Date Collected: 10/13/22 14:30
Date Received: 10/14/22 11:24
Sample Depth: 6'-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	176		49.9		mg/Kg			10/28/22 09:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/22 15:00	10/28/22 04:48	1
Diesel Range Organics (Over C10-C28)	176		49.9		mg/Kg		10/27/22 15:00	10/28/22 04:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/22 15:00	10/28/22 04:48	1
Total TPH	176		49.9		mg/Kg		10/27/22 15:00	10/28/22 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*10/27/22 15:00*	*10/28/22 04:48*	*1*
o-Terphenyl	*107*		*70 - 130*	*10/27/22 15:00*	*10/28/22 04:48*	*1*

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

Lab Sample ID: 880-20390-27
Matrix: Solid
Date Collected: 10/13/22 14:50
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.150		0.0404		mg/Kg		10/17/22 12:44	10/20/22 03:34	20
Toluene	1.85		0.0404		mg/Kg		10/17/22 12:44	10/20/22 03:34	20
Ethylbenzene	6.84		0.0404		mg/Kg		10/17/22 12:44	10/20/22 03:34	20
m-Xylene & p-Xylene	22.9		0.396		mg/Kg		10/20/22 10:33	10/22/22 05:57	100
o-Xylene	3.65		0.0404		mg/Kg		10/17/22 12:44	10/20/22 03:34	20
Xylenes, Total	31.6		0.396		mg/Kg		10/20/22 10:33	10/22/22 05:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/17/22 12:44*	*10/20/22 03:34*	*20*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/17/22 12:44*	*10/20/22 03:34*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	35.4		0.396		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6010		50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	829		50.0		mg/Kg		10/14/22 15:46	10/15/22 04:14	1
Diesel Range Organics (Over C10-C28)	4730		50.0		mg/Kg		10/14/22 15:46	10/15/22 04:14	1
Oil Range Organics (Over C28-C36)	448		50.0		mg/Kg		10/14/22 15:46	10/15/22 04:14	1
Total TPH	6010		50.0		mg/Kg		10/14/22 15:46	10/15/22 04:14	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-27
Matrix: Solid
Date Collected: 10/13/22 14:50
Date Received: 10/14/22 11:24
Sample Depth: 0'-1'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	10/14/22 15:46	10/15/22 04:14	1
o-Terphenyl	120		70 - 130	10/14/22 15:46	10/15/22 04:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.1		4.95		mg/Kg			10/18/22 06:36	1

Client Sample ID: AH-8 (1'-2')

Lab Sample ID: 880-20390-28
Matrix: Solid
Date Collected: 10/13/22 14:55
Date Received: 10/14/22 11:24
Sample Depth: 1'-2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.114		0.0399		mg/Kg		10/17/22 12:44	10/20/22 03:54	20
Toluene	0.506		0.0399		mg/Kg		10/17/22 12:44	10/20/22 03:54	20
Ethylbenzene	2.24		0.0399		mg/Kg		10/17/22 12:44	10/20/22 03:54	20
m-Xylene & p-Xylene	9.51		0.0798		mg/Kg		10/17/22 12:44	10/20/22 03:54	20
o-Xylene	2.26		0.0399		mg/Kg		10/17/22 12:44	10/20/22 03:54	20
Xylenes, Total	11.8		0.0798		mg/Kg		10/17/22 12:44	10/20/22 03:54	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	10/17/22 12:44	10/20/22 03:54	20
1,4-Difluorobenzene (Surr)	95		70 - 130	10/17/22 12:44	10/20/22 03:54	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.6		0.0798		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3420		49.9		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	461		49.9		mg/Kg		10/14/22 15:46	10/15/22 04:36	1
Diesel Range Organics (Over C10-C28)	2720		49.9		mg/Kg		10/14/22 15:46	10/15/22 04:36	1
Oil Range Organics (Over C28-C36)	241		49.9		mg/Kg		10/14/22 15:46	10/15/22 04:36	1
Total TPH	3420		49.9		mg/Kg		10/14/22 15:46	10/15/22 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	10/14/22 15:46	10/15/22 04:36	1
o-Terphenyl	107		70 - 130	10/14/22 15:46	10/15/22 04:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		4.98		mg/Kg			10/18/22 06:40	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-8 (2'-3')

Lab Sample ID: 880-20390-29
Matrix: Solid
Date Collected: 10/13/22 15:00
Date Received: 10/14/22 11:24
Sample Depth: 2'-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/17/22 12:44	10/20/22 02:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/17/22 12:44	10/20/22 02:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/17/22 12:44	10/20/22 02:53	1
m-Xylene & p-Xylene	**0.00531**		0.00396		mg/Kg		10/17/22 12:44	10/20/22 02:53	1
o-Xylene	**0.00295**		0.00198		mg/Kg		10/17/22 12:44	10/20/22 02:53	1
Xylenes, Total	**0.00826**		0.00396		mg/Kg		10/17/22 12:44	10/20/22 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*10/17/22 12:44*	*10/20/22 02:53*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/17/22 12:44*	*10/20/22 02:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00826**		0.00396		mg/Kg			10/20/22 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 23:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 23:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 23:11	1
Total TPH	<49.9	U	49.9		mg/Kg		10/14/22 15:46	10/14/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/14/22 15:46*	*10/14/22 23:11*	*1*
o-Terphenyl	*110*		*70 - 130*	*10/14/22 15:46*	*10/14/22 23:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.4**		5.03		mg/Kg			10/18/22 06:45	1

Client Sample ID: AH-8 (3'-4')

Lab Sample ID: 880-20390-30
Matrix: Solid
Date Collected: 10/13/22 15:05
Date Received: 10/14/22 11:24
Sample Depth: 3'-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 12:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/17/22 12:52	10/19/22 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 12:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/17/22 12:52	10/19/22 12:11	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-8 (3'-4')

Lab Sample ID: 880-20390-30
Matrix: Solid

Date Collected: 10/13/22 15:05
Date Received: 10/14/22 11:24
Sample Depth: 3'-4'

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/17/22 12:52*	*10/19/22 12:11*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/17/22 12:52*	*10/19/22 12:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/19/22 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**58.8**		49.9		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/14/22 16:00	10/14/22 19:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/22 16:00	10/14/22 19:46	1
Oil Range Organics (Over C28-C36)	**58.8**		49.9		mg/Kg		10/14/22 16:00	10/14/22 19:46	1
Total TPH	**58.8**		49.9		mg/Kg		10/14/22 16:00	10/14/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*10/14/22 16:00*	*10/14/22 19:46*	*1*
o-Terphenyl	*89*		*70 - 130*	*10/14/22 16:00*	*10/14/22 19:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			10/15/22 22:10	1

Client Sample ID: AH-8 (4'-5')

Lab Sample ID: 880-20390-31
Matrix: Solid

Date Collected: 10/13/22 15:10
Date Received: 10/14/22 11:24
Sample Depth: 4'-5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/17/22 12:52	10/19/22 12:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/17/22 12:52	10/19/22 12:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/17/22 12:52	10/19/22 12:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/17/22 12:52	10/19/22 12:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/17/22 12:52	10/19/22 12:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/17/22 12:52	10/19/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/17/22 12:52*	*10/19/22 12:32*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/17/22 12:52*	*10/19/22 12:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/19/22 14:41	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-8 (4'-5')

Date Collected: 10/13/22 15:10
Date Received: 10/14/22 11:24
Sample Depth: 4'-5'

Lab Sample ID: 880-20390-31

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/22 16:53	10/15/22 18:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 16:53	10/15/22 18:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 16:53	10/15/22 18:45	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 16:53	10/15/22 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*10/14/22 16:53*	*10/15/22 18:45*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/14/22 16:53*	*10/15/22 18:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			10/15/22 22:19	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea 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)
880-20390-1	AH-1 (0'-1')	114	84
880-20390-1 MS	AH-1 (0'-1')	115	103
880-20390-1 MSD	AH-1 (0'-1')	116	102
880-20390-2	AH-2 (0'-1')	97	101
880-20390-3	AH-3 (0'-1')	91	101
880-20390-4	AH-4 (0'-1')	100	94
880-20390-5	AH-5 (0'-1')	190 S1+	97
880-20390-6	AH-5 (1'-2')	78	110
880-20390-7	AH-5 (2'-3')	108	90
880-20390-8	AH-5 (3'-4')	177 S1+	105
880-20390-9	AH-5 (4'-5')	95	57 S1-
880-20390-11	AH-6 (0'-1')	197 S1+	104
880-20390-12	AH-6 (1'-2')	160 S1+	105
880-20390-13	AH-6 (2'-3')	273 S1+	119
880-20390-14	AH-6 (3'-4')	109	105
880-20390-17	AH-7 (0'-1')	188 S1+	100
880-20390-18	AH-7 (1'-2')	276 S1+	83
880-20390-19	AH-7 (2'-3')	156 S1+	116
880-20390-20	AH-7 (3'-4')	158 S1+	68 S1-
880-20390-21	AH-7 (4'-5')	204 S1+	100
880-20390-22	AH-7 (5'-6')	107	94
880-20390-27	AH-8 (0'-1')	109	99
880-20390-28	AH-8 (1'-2')	141 S1+	95
880-20390-29	AH-8 (2'-3')	106	100
880-20390-30	AH-8 (3'-4')	111	99
880-20390-30 MS	AH-8 (3'-4')	95	90
880-20390-30 MSD	AH-8 (3'-4')	93	89
880-20390-31	AH-8 (4'-5')	116	96
880-20552-A-1-G MS	Matrix Spike	101	111
880-20552-A-1-H MSD	Matrix Spike Duplicate	85	92
890-3234-A-1-C MS	Matrix Spike	90	103
890-3234-A-1-D MSD	Matrix Spike Duplicate	99	98
LCS 880-37155/1-A	Lab Control Sample	98	104
LCS 880-37156/1-A	Lab Control Sample	104	80
LCS 880-37393/1-A	Lab Control Sample	106	96
LCS 880-37517/1-A	Lab Control Sample	99	98
LCSD 880-37155/2-A	Lab Control Sample Dup	113	106
LCSD 880-37156/2-A	Lab Control Sample Dup	95	92
LCSD 880-37393/2-A	Lab Control Sample Dup	109	111
LCSD 880-37517/2-A	Lab Control Sample Dup	105	93
MB 880-37155/5-A	Method Blank	113	91
MB 880-37156/5-A	Method Blank	96	80
MB 880-37160/5-A	Method Blank	84	94
MB 880-37241/5-A	Method Blank	90	99
MB 880-37393/5-A	Method Blank	86	90
MB 880-37517/5-A	Method Blank	109	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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)										
880-20328-A-8-E MS	Matrix Spike	64 S1-	59 S1-										
880-20328-A-8-F MSD	Matrix Spike Duplicate	73	67 S1-										
880-20390-1	AH-1 (0'-1')	99	103										
880-20390-1 MS	AH-1 (0'-1')	103	95										
880-20390-1 MSD	AH-1 (0'-1')	107	100										
880-20390-2	AH-2 (0'-1')	122	125										
880-20390-3	AH-3 (0'-1')	102	111										
880-20390-4	AH-4 (0'-1')	119	127										
880-20390-5	AH-5 (0'-1')	130	126										
880-20390-6	AH-5 (1'-2')	144 S1+	124										
880-20390-7	AH-5 (2'-3')	146 S1+	123										
880-20390-8	AH-5 (3'-4')	129	114										
880-20390-9	AH-5 (4'-5')	121	109										
880-20390-10	AH-5 (5'-6')	128	116										
880-20390-11	AH-6 (0'-1')	119	109										
880-20390-12	AH-6 (1'-2')	123	108										
880-20390-13	AH-6 (2'-3')	142 S1+	131 S1+										
880-20390-14	AH-6 (3'-4')	120	126										
880-20390-17	AH-7 (0'-1')	150 S1+	131 S1+										
880-20390-18	AH-7 (1'-2')	149 S1+	121										
880-20390-19	AH-7 (2'-3')	157 S1+	118										
880-20390-20	AH-7 (3'-4')	127	113										
880-20390-21	AH-7 (4'-5')	138 S1+	117										
880-20390-22	AH-7 (5'-6')	98	101										
880-20390-23	AH-7 (6'-7')	98	107										
880-20390-27	AH-8 (0'-1')	136 S1+	120										
880-20390-28	AH-8 (1'-2')	112	107										
880-20390-29	AH-8 (2'-3')	101	110										
880-20390-30	AH-8 (3'-4')	81	89										
880-20390-31	AH-8 (4'-5')	89	95										
880-20410-A-1-H MS	Matrix Spike	92	85										
880-20410-A-1-I MSD	Matrix Spike Duplicate	80	73										
880-20837-A-21-F MS	Matrix Spike	138 S1+	163 S1+										
880-20837-A-21-G MSD	Matrix Spike Duplicate	86	88										
890-3263-A-1-C MS	Matrix Spike	89	80										
890-3263-A-1-D MSD	Matrix Spike Duplicate	86	78										
LCS 880-36937/2-A	Lab Control Sample	75	82										
LCS 880-36992/2-A	Lab Control Sample	101	117										
LCS 880-36996/2-A	Lab Control Sample	92	97										
LCS 880-37769/2-A	Lab Control Sample	117	125										
LCS 880-38028/2-A	Lab Control Sample	124	142 S1+										
LCSD 880-36937/3-A	Lab Control Sample Dup	73	80										
LCSD 880-36992/3-A	Lab Control Sample Dup	100	114										
LCSD 880-36996/3-A	Lab Control Sample Dup	81	83										
LCSD 880-37769/3-A	Lab Control Sample Dup	98	103										
LCSD 880-38028/3-A	Lab Control Sample Dup	121	138 S1+										
MB 880-36937/1-A	Method Blank	96	108										
MB 880-36992/1-A	Method Blank	133 S1+	153 S1+										
MB 880-36996/1-A	Method Blank	105	116										

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 880-20390-1
Project/Site: ETC Shurvesa Interconnect
SDG: Lea County, 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)								
MB 880-37769/1-A	Method Blank	100	107								
MB 880-38028/1-A	Method Blank	106	126								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37155/5-A
Matrix: Solid
Analysis Batch: 37264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/19/22 21:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/19/22 21:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/19/22 21:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 12:44	10/19/22 21:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:44	10/19/22 21:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 12:44	10/19/22 21:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*10/17/22 12:44*	*10/19/22 21:25*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/17/22 12:44*	*10/19/22 21:25*	*1*

Lab Sample ID: LCS 880-37155/1-A
Matrix: Solid
Analysis Batch: 37264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1094		mg/Kg		109	70 - 130
Toluene	0.100	0.09693		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09577		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09461		mg/Kg		95	70 - 130

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

Lab Sample ID: LCSD 880-37155/2-A
Matrix: Solid
Analysis Batch: 37264

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37155

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09624		mg/Kg		96	70 - 130	13	35
Toluene	0.100	0.09193		mg/Kg		92	70 - 130	5	35
Ethylbenzene	0.100	0.09557		mg/Kg		96	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2036		mg/Kg		102	70 - 130	5	35
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-20390-1 MS
Matrix: Solid
Analysis Batch: 37264

Client Sample ID: AH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 37155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.08474		mg/Kg		85	70 - 130
Toluene	<0.00200	U F1	0.0998	0.06855	F1	mg/Kg		69	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-1 MS
Matrix: Solid
Analysis Batch: 37264

Client Sample ID: AH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 37155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0998	0.06405	F1	mg/Kg		64	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1277	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.06703	F1	mg/Kg		67	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-20390-1 MSD
Matrix: Solid
Analysis Batch: 37264

Client Sample ID: AH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 37155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.06432	F1	mg/Kg		65	70 - 130	27	35
Toluene	<0.00200	U F1	0.0996	0.06857	F1	mg/Kg		69	70 - 130	0	35
Ethylbenzene	<0.00200	U F1	0.0996	0.07945		mg/Kg		80	70 - 130	21	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.1604		mg/Kg		81	70 - 130	23	35
o-Xylene	<0.00200	U F1	0.0996	0.08053		mg/Kg		81	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-37156/5-A
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 12:52	10/19/22 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 12:52	10/19/22 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 12:52	10/19/22 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*10/17/22 12:52*	*10/19/22 11:50*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*10/17/22 12:52*	*10/19/22 11:50*	*1*

Lab Sample ID: LCS 880-37156/1-A
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1086		mg/Kg		109	70 - 130
Toluene	0.100	0.1223		mg/Kg		122	70 - 130
Ethylbenzene	0.100	0.1182		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2534		mg/Kg		127	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-37156/1-A
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37156

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1236		mg/Kg		124	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 880-37156/2-A
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37156

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1036		mg/Kg		104	70 - 130	5	35
Toluene			0.100	0.1070		mg/Kg		107	70 - 130	13	35
Ethylbenzene			0.100	0.1032		mg/Kg		103	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.2155		mg/Kg		108	70 - 130	16	35
o-Xylene			0.100	0.1072		mg/Kg		107	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-20390-30 MS
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: AH-8 (3'-4')
Prep Type: Total/NA
Prep Batch: 37156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08716		mg/Kg		87	70 - 130		
Toluene	<0.00200	U	0.100	0.08989		mg/Kg		90	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09083		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1836		mg/Kg		92	70 - 130		
o-Xylene	<0.00200	U	0.100	0.09589		mg/Kg		96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-20390-30 MSD
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: AH-8 (3'-4')
Prep Type: Total/NA
Prep Batch: 37156

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08428		mg/Kg		85	70 - 130	3	35
Toluene	<0.00200	U	0.0990	0.08653		mg/Kg		87	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0990	0.07810		mg/Kg		79	70 - 130	15	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1613		mg/Kg		81	70 - 130	13	35
o-Xylene	<0.00200	U	0.0990	0.08232		mg/Kg		83	70 - 130	15	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-30 MSD
Matrix: Solid
Analysis Batch: 37265

Client Sample ID: AH-8 (3'-4')
Prep Type: Total/NA
Prep Batch: 37156

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-37160/5-A
Matrix: Solid
Analysis Batch: 37450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/22 13:35	10/21/22 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/22 13:35	10/21/22 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	10/17/22 13:35	10/21/22 11:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/17/22 13:35	10/21/22 11:02	1

Lab Sample ID: MB 880-37241/5-A
Matrix: Solid
Analysis Batch: 37264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/22 14:33	10/19/22 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/22 14:33	10/19/22 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/22 14:33	10/19/22 10:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/22 14:33	10/19/22 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/22 14:33	10/19/22 10:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/22 14:33	10/19/22 10:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/18/22 14:33	10/19/22 10:50	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/18/22 14:33	10/19/22 10:50	1

Lab Sample ID: MB 880-37393/5-A
Matrix: Solid
Analysis Batch: 37450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/22 10:33	10/21/22 22:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/22 10:33	10/21/22 22:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/22 10:33	10/21/22 22:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/20/22 10:33	10/21/22 22:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/22 10:33	10/21/22 22:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/20/22 10:33	10/21/22 22:04	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-37393/5-A
Matrix: Solid
Analysis Batch: 37450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37393

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/20/22 10:33	10/21/22 22:04	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/20/22 10:33	10/21/22 22:04	1

Lab Sample ID: LCS 880-37393/1-A
Matrix: Solid
Analysis Batch: 37450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1035		mg/Kg		103	70 - 130
Toluene	0.100	0.09351		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09362		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09697		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-37393/2-A
Matrix: Solid
Analysis Batch: 37450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37393

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1088		mg/Kg		109	70 - 130	5	35
Toluene	0.100	0.09240		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.09214		mg/Kg		92	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1875		mg/Kg		94	70 - 130	4	35
o-Xylene	0.100	0.09289		mg/Kg		93	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-20552-A-1-G MS
Matrix: Solid
Analysis Batch: 37450

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 37393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F2 F1	0.0998	0.1003		mg/Kg		101	70 - 130
Toluene	<0.00198	U F1	0.0998	0.08361		mg/Kg		84	70 - 130
Ethylbenzene	<0.00198	U F1	0.0998	0.08101		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.1647		mg/Kg		83	70 - 130
o-Xylene	<0.00198	U F2 F1	0.0998	0.08182		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20552-A-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 37450 — **Prep Batch: 37393**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F2 F1	0.101	<0.00202	U F2 F1	mg/Kg		0.4	70 - 130	198	35
Toluene	<0.00198	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00198	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00397	U F1	0.202	<0.00404	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00198	U F2 F1	0.101	<0.00202	U F2 F1	mg/Kg		0.4	70 - 130	198	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-37517/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 37728 — **Prep Batch: 37517**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/22 14:22	10/25/22 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/21/22 14:22	10/25/22 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/21/22 14:22*	*10/25/22 11:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/21/22 14:22*	*10/25/22 11:26*	*1*

Lab Sample ID: LCS 880-37517/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 37728 — **Prep Batch: 37517**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1017		mg/Kg		102	70 - 130		
Toluene			0.100	0.1085		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1005		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2078		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.1114		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-37517/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 37728 — **Prep Batch: 37517**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09388		mg/Kg		94	70 - 130	8	35
Toluene			0.100	0.1073		mg/Kg		107	70 - 130	1	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-37517/2-A
Matrix: Solid
Analysis Batch: 37728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37517

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.1027		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2150		mg/Kg		107	70 - 130	3	35
o-Xylene			0.100	0.1157		mg/Kg		116	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-3234-A-1-C MS
Matrix: Solid
Analysis Batch: 37728

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 37517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.0998	0.02483	F1	mg/Kg		25	70 - 130
Toluene	<0.00201	U F1	0.0998	0.02053	F1	mg/Kg		21	70 - 130
Ethylbenzene	<0.00201	U F1	0.0998	0.01717	F1	mg/Kg		17	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.03517	F1	mg/Kg		18	70 - 130
o-Xylene	<0.00201	U F1	0.0998	0.02055	F1	mg/Kg		21	70 - 130

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

Lab Sample ID: 890-3234-A-1-D MSD
Matrix: Solid
Analysis Batch: 37728

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 37517

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0990	0.03579	F1 F2	mg/Kg		36	70 - 130	36	35
Toluene	<0.00201	U F1	0.0990	0.02501	F1	mg/Kg		25	70 - 130	20	35
Ethylbenzene	<0.00201	U F1	0.0990	0.01880	F1	mg/Kg		19	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.03839	F1	mg/Kg		19	70 - 130	9	35
o-Xylene	<0.00201	U F1	0.0990	0.02248	F1	mg/Kg		23	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-36937/1-A
Matrix: Solid
Analysis Batch: 36924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36937

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		10/14/22 08:59	10/14/22 10:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 08:59	10/14/22 10:34	1

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-36937/1-A
Matrix: Solid
Analysis Batch: 36924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 08:59	10/14/22 10:34	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 08:59	10/14/22 10:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*10/14/22 08:59*	*10/14/22 10:34*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/14/22 08:59*	*10/14/22 10:34*	*1*

Lab Sample ID: LCS 880-36937/2-A
Matrix: Solid
Analysis Batch: 36924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	834.9		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	811.7		mg/Kg		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*75*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: LCSD 880-36937/3-A
Matrix: Solid
Analysis Batch: 36924

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36937

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	847.6		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	824.3		mg/Kg		82	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 880-20328-A-8-E MS
Matrix: Solid
Analysis Batch: 36924

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 36937

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 F2	998	903.9		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	998	657.7	F1	mg/Kg		66	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*64*	*S1-*	*70 - 130*
o-Terphenyl	*59*	*S1-*	*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20328-A-8-F MSD
Matrix: Solid
Analysis Batch: 36924

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 36937

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 F2	998	1217	F2	mg/Kg		120	70 - 130	30	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	998	734.9		mg/Kg		74	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*67*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-36992/1-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36992

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		10/14/22 15:46	10/14/22 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 15:46	10/14/22 19:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 15:46	10/14/22 19:36	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 15:46	10/14/22 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/14/22 19:36*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*10/14/22 15:46*	*10/14/22 19:36*	*1*

Lab Sample ID: LCS 880-36992/2-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36992

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	933.0		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	949.2		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: LCSD 880-36992/3-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36992

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1046		mg/Kg		105	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	960.1		mg/Kg		96	70 - 130	1	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-36992/3-A
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36992

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: 880-20390-1 MS
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: AH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 36992

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	862.1		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1052		mg/Kg		104	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-20390-1 MSD
Matrix: Solid
Analysis Batch: 36920

Client Sample ID: AH-1 (0'-1')
Prep Type: Total/NA
Prep Batch: 36992

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	918.8		mg/Kg		90	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1107		mg/Kg		109	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: MB 880-36996/1-A
Matrix: Solid
Analysis Batch: 37013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36996

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		10/14/22 16:53	10/15/22 10:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/22 16:53	10/15/22 10:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/22 16:53	10/15/22 10:52	1
Total TPH	<50.0	U	50.0		mg/Kg		10/14/22 16:53	10/15/22 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	10/14/22 16:53	10/15/22 10:52	1
o-Terphenyl	116		70 - 130	10/14/22 16:53	10/15/22 10:52	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-36996/2-A
Matrix: Solid
Analysis Batch: 37013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36996

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	924.1		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	962.5		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-36996/3-A
Matrix: Solid
Analysis Batch: 37013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36996

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1007		mg/Kg		101	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	823.9		mg/Kg		82	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 880-20410-A-1-H MS
Matrix: Solid
Analysis Batch: 37013

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 36996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	845.3		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	998	745.6		mg/Kg		75	70 - 130		

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

Lab Sample ID: 880-20410-A-1-I MSD
Matrix: Solid
Analysis Batch: 37013

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 36996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	781.3		mg/Kg		76	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	998	659.7	F1	mg/Kg		66	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20410-A-1-I MSD
Matrix: Solid
Analysis Batch: 37013

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 36996

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	73		70 - 130

Lab Sample ID: MB 880-37769/1-A
Matrix: Solid
Analysis Batch: 37764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37769

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		10/25/22 08:30	10/25/22 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/25/22 08:30	10/25/22 09:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/25/22 08:30	10/25/22 09:08	1
Total TPH	<50.0	U	50.0		mg/Kg		10/25/22 08:30	10/25/22 09:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	10/25/22 08:30	10/25/22 09:08	1
o-Terphenyl	107		70 - 130	10/25/22 08:30	10/25/22 09:08	1

Lab Sample ID: LCS 880-37769/2-A
Matrix: Solid
Analysis Batch: 37764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	16.63	J *-	mg/Kg		2	70 - 130
Diesel Range Organics (Over C10-C28)	1000	16.30	J *-	mg/Kg		2	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: LCSD 880-37769/3-A
Matrix: Solid
Analysis Batch: 37764

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37769

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	802.8	*1	mg/Kg		80	70 - 130	192	20
Diesel Range Organics (Over C10-C28)	1000	841.9	*1	mg/Kg		84	70 - 130	192	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	103		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 890-3263-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 37764 — **Prep Batch: 37769**

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 *-	998	1230		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U *1 *-	998	903.5		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 890-3263-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 37764 — **Prep Batch: 37769**

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 *-	998	1205		mg/Kg		119	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U *1 *-	998	871.4		mg/Kg		87	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: MB 880-38028/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 37972 — **Prep Batch: 38028**

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		10/27/22 15:00	10/27/22 22:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/22 15:00	10/27/22 22:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/22 15:00	10/27/22 22:01	1
Total TPH	<50.0	U	50.0		mg/Kg		10/27/22 15:00	10/27/22 22:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/27/22 15:00*	*10/27/22 22:01*	*1*
o-Terphenyl	*126*		*70 - 130*	*10/27/22 15:00*	*10/27/22 22:01*	*1*

Lab Sample ID: LCS 880-38028/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 37972 — **Prep Batch: 38028**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	988.6		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	881.3		mg/Kg		88	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-38028/2-A
Matrix: Solid
Analysis Batch: 37972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38028

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	142	S1+	70 - 130

Lab Sample ID: LCSD 880-38028/3-A
Matrix: Solid
Analysis Batch: 37972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	944.1		mg/Kg		94	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	874.2		mg/Kg		87	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	138	S1+	70 - 130

Lab Sample ID: 880-20837-A-21-F MS
Matrix: Solid
Analysis Batch: 37972

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 38028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1016		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1 F2	998	1825	F1	mg/Kg		183	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	163	S1+	70 - 130

Lab Sample ID: 880-20837-A-21-G MSD
Matrix: Solid
Analysis Batch: 37972

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 38028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1110		mg/Kg		108	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1 F2	998	968.4	F2	mg/Kg		97	70 - 130	61	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	88		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36988/1-A
Matrix: Solid
Analysis Batch: 37027

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			10/15/22 16:39	1

Lab Sample ID: LCS 880-36988/2-A
Matrix: Solid
Analysis Batch: 37027

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.2		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-36988/3-A
Matrix: Solid
Analysis Batch: 37027

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	238.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-3202-A-6-C MS
Matrix: Solid
Analysis Batch: 37027

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	34.0		248	290.6		mg/Kg		104	90 - 110

Lab Sample ID: 890-3202-A-6-D MSD
Matrix: Solid
Analysis Batch: 37027

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	34.0		248	282.1		mg/Kg		100	90 - 110	3	20

Lab Sample ID: MB 880-36985/1-A
Matrix: Solid
Analysis Batch: 37030

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			10/18/22 04:20	1

Lab Sample ID: LCS 880-36985/2-A
Matrix: Solid
Analysis Batch: 37030

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-36985/3-A
Matrix: Solid
Analysis Batch: 37030

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	244.6		mg/Kg		98	90 - 110	1	20

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-20390-1 MS
Matrix: Solid
Analysis Batch: 37030

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	17.2		250	262.7		mg/Kg		98	90 - 110		

Lab Sample ID: 880-20390-1 MSD
Matrix: Solid
Analysis Batch: 37030

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17.2		250	262.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-20390-13 MS
Matrix: Solid
Analysis Batch: 37030

Client Sample ID: AH-6 (2'-3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	21.7		252	267.1		mg/Kg		97	90 - 110		

Lab Sample ID: 880-20390-13 MSD
Matrix: Solid
Analysis Batch: 37030

Client Sample ID: AH-6 (2'-3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21.7		252	266.8		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

GC VOA

Prep Batch: 37155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1	AH-1 (0'-1')	Total/NA	Solid	5035	
880-20390-2	AH-2 (0'-1')	Total/NA	Solid	5035	
880-20390-3	AH-3 (0'-1')	Total/NA	Solid	5035	
880-20390-4	AH-4 (0'-1')	Total/NA	Solid	5035	
880-20390-5	AH-5 (0'-1')	Total/NA	Solid	5035	
880-20390-6	AH-5 (1'-2')	Total/NA	Solid	5035	
880-20390-7	AH-5 (2'-3')	Total/NA	Solid	5035	
880-20390-8	AH-5 (3'-4')	Total/NA	Solid	5035	
880-20390-11	AH-6 (0'-1')	Total/NA	Solid	5035	
880-20390-12	AH-6 (1'-2')	Total/NA	Solid	5035	
880-20390-13	AH-6 (2'-3')	Total/NA	Solid	5035	
880-20390-14	AH-6 (3'-4')	Total/NA	Solid	5035	
880-20390-17	AH-7 (0'-1')	Total/NA	Solid	5035	
880-20390-18	AH-7 (1'-2')	Total/NA	Solid	5035	
880-20390-19	AH-7 (2'-3')	Total/NA	Solid	5035	
880-20390-20	AH-7 (3'-4')	Total/NA	Solid	5035	
880-20390-27	AH-8 (0'-1')	Total/NA	Solid	5035	
880-20390-28	AH-8 (1'-2')	Total/NA	Solid	5035	
880-20390-29	AH-8 (2'-3')	Total/NA	Solid	5035	
MB 880-37155/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37155/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37155/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20390-1 MS	AH-1 (0'-1')	Total/NA	Solid	5035	
880-20390-1 MSD	AH-1 (0'-1')	Total/NA	Solid	5035	

Prep Batch: 37156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-30	AH-8 (3'-4')	Total/NA	Solid	5035	
880-20390-31	AH-8 (4'-5')	Total/NA	Solid	5035	
MB 880-37156/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37156/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37156/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20390-30 MS	AH-8 (3'-4')	Total/NA	Solid	5035	
880-20390-30 MSD	AH-8 (3'-4')	Total/NA	Solid	5035	

Prep Batch: 37160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37160/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 37241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37241/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 37264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1	AH-1 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-2	AH-2 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-3	AH-3 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-4	AH-4 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-5	AH-5 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-6	AH-5 (1'-2')	Total/NA	Solid	8021B	37155

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 37264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-7	AH-5 (2'-3')	Total/NA	Solid	8021B	37155
880-20390-8	AH-5 (3'-4')	Total/NA	Solid	8021B	37155
880-20390-11	AH-6 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-12	AH-6 (1'-2')	Total/NA	Solid	8021B	37155
880-20390-13	AH-6 (2'-3')	Total/NA	Solid	8021B	37155
880-20390-14	AH-6 (3'-4')	Total/NA	Solid	8021B	37155
880-20390-17	AH-7 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-18	AH-7 (1'-2')	Total/NA	Solid	8021B	37155
880-20390-19	AH-7 (2'-3')	Total/NA	Solid	8021B	37155
880-20390-20	AH-7 (3'-4')	Total/NA	Solid	8021B	37155
880-20390-27	AH-8 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-28	AH-8 (1'-2')	Total/NA	Solid	8021B	37155
880-20390-29	AH-8 (2'-3')	Total/NA	Solid	8021B	37155
MB 880-37155/5-A	Method Blank	Total/NA	Solid	8021B	37155
MB 880-37241/5-A	Method Blank	Total/NA	Solid	8021B	37241
LCS 880-37155/1-A	Lab Control Sample	Total/NA	Solid	8021B	37155
LCSD 880-37155/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37155
880-20390-1 MS	AH-1 (0'-1')	Total/NA	Solid	8021B	37155
880-20390-1 MSD	AH-1 (0'-1')	Total/NA	Solid	8021B	37155

Analysis Batch: 37265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-30	AH-8 (3'-4')	Total/NA	Solid	8021B	37156
880-20390-31	AH-8 (4'-5')	Total/NA	Solid	8021B	37156
MB 880-37156/5-A	Method Blank	Total/NA	Solid	8021B	37156
LCS 880-37156/1-A	Lab Control Sample	Total/NA	Solid	8021B	37156
LCSD 880-37156/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37156
880-20390-30 MS	AH-8 (3'-4')	Total/NA	Solid	8021B	37156
880-20390-30 MSD	AH-8 (3'-4')	Total/NA	Solid	8021B	37156

Analysis Batch: 37337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1	AH-1 (0'-1')	Total/NA	Solid	Total BTEX	
880-20390-2	AH-2 (0'-1')	Total/NA	Solid	Total BTEX	
880-20390-3	AH-3 (0'-1')	Total/NA	Solid	Total BTEX	
880-20390-4	AH-4 (0'-1')	Total/NA	Solid	Total BTEX	
880-20390-5	AH-5 (0'-1')	Total/NA	Solid	Total BTEX	
880-20390-6	AH-5 (1'-2')	Total/NA	Solid	Total BTEX	
880-20390-7	AH-5 (2'-3')	Total/NA	Solid	Total BTEX	
880-20390-8	AH-5 (3'-4')	Total/NA	Solid	Total BTEX	
880-20390-9	AH-5 (4'-5')	Total/NA	Solid	Total BTEX	
880-20390-11	AH-6 (0'-1')	Total/NA	Solid	Total BTEX	
880-20390-12	AH-6 (1'-2')	Total/NA	Solid	Total BTEX	
880-20390-13	AH-6 (2'-3')	Total/NA	Solid	Total BTEX	
880-20390-14	AH-6 (3'-4')	Total/NA	Solid	Total BTEX	
880-20390-17	AH-7 (0'-1')	Total/NA	Solid	Total BTEX	
880-20390-18	AH-7 (1'-2')	Total/NA	Solid	Total BTEX	
880-20390-19	AH-7 (2'-3')	Total/NA	Solid	Total BTEX	
880-20390-20	AH-7 (3'-4')	Total/NA	Solid	Total BTEX	
880-20390-21	AH-7 (4'-5')	Total/NA	Solid	Total BTEX	
880-20390-22	AH-7 (5'-6')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 37337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-27	AH-8 (0'-1')	Total/NA	Solid	Total BTEX	
880-20390-28	AH-8 (1'-2')	Total/NA	Solid	Total BTEX	
880-20390-29	AH-8 (2'-3')	Total/NA	Solid	Total BTEX	
880-20390-30	AH-8 (3'-4')	Total/NA	Solid	Total BTEX	
880-20390-31	AH-8 (4'-5')	Total/NA	Solid	Total BTEX	

Prep Batch: 37393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-7	AH-5 (2'-3')	Total/NA	Solid	5035	
880-20390-8	AH-5 (3'-4')	Total/NA	Solid	5035	
880-20390-11	AH-6 (0'-1')	Total/NA	Solid	5035	
880-20390-12	AH-6 (1'-2')	Total/NA	Solid	5035	
880-20390-13	AH-6 (2'-3')	Total/NA	Solid	5035	
880-20390-17	AH-7 (0'-1')	Total/NA	Solid	5035	
880-20390-18	AH-7 (1'-2')	Total/NA	Solid	5035	
880-20390-19	AH-7 (2'-3')	Total/NA	Solid	5035	
880-20390-20	AH-7 (3'-4')	Total/NA	Solid	5035	
880-20390-21	AH-7 (4'-5')	Total/NA	Solid	5035	
880-20390-27	AH-8 (0'-1')	Total/NA	Solid	5035	
MB 880-37393/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37393/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-37393/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20552-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-20552-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-7	AH-5 (2'-3')	Total/NA	Solid	8021B	37393
880-20390-8	AH-5 (3'-4')	Total/NA	Solid	8021B	37393
880-20390-11	AH-6 (0'-1')	Total/NA	Solid	8021B	37393
880-20390-12	AH-6 (1'-2')	Total/NA	Solid	8021B	37393
880-20390-13	AH-6 (2'-3')	Total/NA	Solid	8021B	37393
880-20390-17	AH-7 (0'-1')	Total/NA	Solid	8021B	37393
880-20390-18	AH-7 (1'-2')	Total/NA	Solid	8021B	37393
880-20390-19	AH-7 (2'-3')	Total/NA	Solid	8021B	37393
880-20390-20	AH-7 (3'-4')	Total/NA	Solid	8021B	37393
880-20390-21	AH-7 (4'-5')	Total/NA	Solid	8021B	37393
880-20390-27	AH-8 (0'-1')	Total/NA	Solid	8021B	37393
MB 880-37160/5-A	Method Blank	Total/NA	Solid	8021B	37160
MB 880-37393/5-A	Method Blank	Total/NA	Solid	8021B	37393
LCS 880-37393/1-A	Lab Control Sample	Total/NA	Solid	8021B	37393
LCSD 880-37393/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37393
880-20552-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	37393
880-20552-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37393

Prep Batch: 37517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-9	AH-5 (4'-5')	Total/NA	Solid	5035	
880-20390-22	AH-7 (5'-6')	Total/NA	Solid	5035	
MB 880-37517/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-37517/1-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 37517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-37517/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3234-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3234-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 37728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-9	AH-5 (4'-5')	Total/NA	Solid	8021B	37517
880-20390-22	AH-7 (5'-6')	Total/NA	Solid	8021B	37517
MB 880-37517/5-A	Method Blank	Total/NA	Solid	8021B	37517
LCS 880-37517/1-A	Lab Control Sample	Total/NA	Solid	8021B	37517
LCSD 880-37517/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	37517
890-3234-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	37517
890-3234-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	37517

GC Semi VOA

Analysis Batch: 36920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1	AH-1 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-2	AH-2 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-3	AH-3 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-4	AH-4 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-5	AH-5 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-6	AH-5 (1'-2')	Total/NA	Solid	8015B NM	36992
880-20390-7	AH-5 (2'-3')	Total/NA	Solid	8015B NM	36992
880-20390-8	AH-5 (3'-4')	Total/NA	Solid	8015B NM	36992
880-20390-11	AH-6 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-12	AH-6 (1'-2')	Total/NA	Solid	8015B NM	36992
880-20390-13	AH-6 (2'-3')	Total/NA	Solid	8015B NM	36992
880-20390-14	AH-6 (3'-4')	Total/NA	Solid	8015B NM	36992
880-20390-17	AH-7 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-18	AH-7 (1'-2')	Total/NA	Solid	8015B NM	36992
880-20390-19	AH-7 (2'-3')	Total/NA	Solid	8015B NM	36992
880-20390-20	AH-7 (3'-4')	Total/NA	Solid	8015B NM	36992
880-20390-21	AH-7 (4'-5')	Total/NA	Solid	8015B NM	36992
880-20390-27	AH-8 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-28	AH-8 (1'-2')	Total/NA	Solid	8015B NM	36992
880-20390-29	AH-8 (2'-3')	Total/NA	Solid	8015B NM	36992
MB 880-36992/1-A	Method Blank	Total/NA	Solid	8015B NM	36992
LCS 880-36992/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36992
LCSD 880-36992/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36992
880-20390-1 MS	AH-1 (0'-1')	Total/NA	Solid	8015B NM	36992
880-20390-1 MSD	AH-1 (0'-1')	Total/NA	Solid	8015B NM	36992

Analysis Batch: 36924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-30	AH-8 (3'-4')	Total/NA	Solid	8015B NM	36937
MB 880-36937/1-A	Method Blank	Total/NA	Solid	8015B NM	36937
LCS 880-36937/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36937
LCSD 880-36937/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36937
880-20328-A-8-E MS	Matrix Spike	Total/NA	Solid	8015B NM	36937

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 36924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20328-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	36937

Prep Batch: 36937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-30	AH-8 (3'-4')	Total/NA	Solid	8015NM Prep	
MB 880-36937/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36937/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36937/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20328-A-8-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-20328-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 36992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1	AH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-2	AH-2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-3	AH-3 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-4	AH-4 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-5	AH-5 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-6	AH-5 (1'-2')	Total/NA	Solid	8015NM Prep	
880-20390-7	AH-5 (2'-3')	Total/NA	Solid	8015NM Prep	
880-20390-8	AH-5 (3'-4')	Total/NA	Solid	8015NM Prep	
880-20390-11	AH-6 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-12	AH-6 (1'-2')	Total/NA	Solid	8015NM Prep	
880-20390-13	AH-6 (2'-3')	Total/NA	Solid	8015NM Prep	
880-20390-14	AH-6 (3'-4')	Total/NA	Solid	8015NM Prep	
880-20390-17	AH-7 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-18	AH-7 (1'-2')	Total/NA	Solid	8015NM Prep	
880-20390-19	AH-7 (2'-3')	Total/NA	Solid	8015NM Prep	
880-20390-20	AH-7 (3'-4')	Total/NA	Solid	8015NM Prep	
880-20390-21	AH-7 (4'-5')	Total/NA	Solid	8015NM Prep	
880-20390-27	AH-8 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-28	AH-8 (1'-2')	Total/NA	Solid	8015NM Prep	
880-20390-29	AH-8 (2'-3')	Total/NA	Solid	8015NM Prep	
MB 880-36992/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36992/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36992/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20390-1 MS	AH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-20390-1 MSD	AH-1 (0'-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 36996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-31	AH-8 (4'-5')	Total/NA	Solid	8015NM Prep	
MB 880-36996/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36996/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36996/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20410-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-20410-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-31	AH-8 (4'-5')	Total/NA	Solid	8015B NM	36996

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 37013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-36996/1-A	Method Blank	Total/NA	Solid	8015B NM	36996
LCS 880-36996/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36996
LCSD 880-36996/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36996
880-20410-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	36996
880-20410-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	36996

Analysis Batch: 37051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1	AH-1 (0'-1')	Total/NA	Solid	8015 NM	
880-20390-2	AH-2 (0'-1')	Total/NA	Solid	8015 NM	
880-20390-3	AH-3 (0'-1')	Total/NA	Solid	8015 NM	
880-20390-4	AH-4 (0'-1')	Total/NA	Solid	8015 NM	
880-20390-5	AH-5 (0'-1')	Total/NA	Solid	8015 NM	
880-20390-6	AH-5 (1'-2')	Total/NA	Solid	8015 NM	
880-20390-7	AH-5 (2'-3')	Total/NA	Solid	8015 NM	
880-20390-8	AH-5 (3'-4')	Total/NA	Solid	8015 NM	
880-20390-9	AH-5 (4'-5')	Total/NA	Solid	8015 NM	
880-20390-10	AH-5 (5'-6')	Total/NA	Solid	8015 NM	
880-20390-11	AH-6 (0'-1')	Total/NA	Solid	8015 NM	
880-20390-12	AH-6 (1'-2')	Total/NA	Solid	8015 NM	
880-20390-13	AH-6 (2'-3')	Total/NA	Solid	8015 NM	
880-20390-14	AH-6 (3'-4')	Total/NA	Solid	8015 NM	
880-20390-17	AH-7 (0'-1')	Total/NA	Solid	8015 NM	
880-20390-18	AH-7 (1'-2')	Total/NA	Solid	8015 NM	
880-20390-19	AH-7 (2'-3')	Total/NA	Solid	8015 NM	
880-20390-20	AH-7 (3'-4')	Total/NA	Solid	8015 NM	
880-20390-21	AH-7 (4'-5')	Total/NA	Solid	8015 NM	
880-20390-22	AH-7 (5'-6')	Total/NA	Solid	8015 NM	
880-20390-23	AH-7 (6'-7')	Total/NA	Solid	8015 NM	
880-20390-27	AH-8 (0'-1')	Total/NA	Solid	8015 NM	
880-20390-28	AH-8 (1'-2')	Total/NA	Solid	8015 NM	
880-20390-29	AH-8 (2'-3')	Total/NA	Solid	8015 NM	
880-20390-30	AH-8 (3'-4')	Total/NA	Solid	8015 NM	
880-20390-31	AH-8 (4'-5')	Total/NA	Solid	8015 NM	

Analysis Batch: 37764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-9	AH-5 (4'-5')	Total/NA	Solid	8015B NM	37769
880-20390-22	AH-7 (5'-6')	Total/NA	Solid	8015B NM	37769
MB 880-37769/1-A	Method Blank	Total/NA	Solid	8015B NM	37769
LCS 880-37769/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37769
LCSD 880-37769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37769
890-3263-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	37769
890-3263-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	37769

Prep Batch: 37769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-9	AH-5 (4'-5')	Total/NA	Solid	8015NM Prep	
880-20390-22	AH-7 (5'-6')	Total/NA	Solid	8015NM Prep	
MB 880-37769/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-37769/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 37769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-37769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3263-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3263-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 37972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-10	AH-5 (5'-6')	Total/NA	Solid	8015B NM	38028
880-20390-23	AH-7 (6'-7')	Total/NA	Solid	8015B NM	38028
MB 880-38028/1-A	Method Blank	Total/NA	Solid	8015B NM	38028
LCS 880-38028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38028
LCSD 880-38028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38028
880-20837-A-21-F MS	Matrix Spike	Total/NA	Solid	8015B NM	38028
880-20837-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38028

Prep Batch: 38028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-10	AH-5 (5'-6')	Total/NA	Solid	8015NM Prep	
880-20390-23	AH-7 (6'-7')	Total/NA	Solid	8015NM Prep	
MB 880-38028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20837-A-21-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-20837-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 36985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1	AH-1 (0'-1')	Soluble	Solid	DI Leach	
880-20390-2	AH-2 (0'-1')	Soluble	Solid	DI Leach	
880-20390-3	AH-3 (0'-1')	Soluble	Solid	DI Leach	
880-20390-4	AH-4 (0'-1')	Soluble	Solid	DI Leach	
880-20390-5	AH-5 (0'-1')	Soluble	Solid	DI Leach	
880-20390-6	AH-5 (1'-2')	Soluble	Solid	DI Leach	
880-20390-7	AH-5 (2'-3')	Soluble	Solid	DI Leach	
880-20390-8	AH-5 (3'-4')	Soluble	Solid	DI Leach	
880-20390-11	AH-6 (0'-1')	Soluble	Solid	DI Leach	
880-20390-12	AH-6 (1'-2')	Soluble	Solid	DI Leach	
880-20390-13	AH-6 (2'-3')	Soluble	Solid	DI Leach	
880-20390-14	AH-6 (3'-4')	Soluble	Solid	DI Leach	
880-20390-17	AH-7 (0'-1')	Soluble	Solid	DI Leach	
880-20390-18	AH-7 (1'-2')	Soluble	Solid	DI Leach	
880-20390-19	AH-7 (2'-3')	Soluble	Solid	DI Leach	
880-20390-20	AH-7 (3'-4')	Soluble	Solid	DI Leach	
880-20390-21	AH-7 (4'-5')	Soluble	Solid	DI Leach	
880-20390-27	AH-8 (0'-1')	Soluble	Solid	DI Leach	
880-20390-28	AH-8 (1'-2')	Soluble	Solid	DI Leach	
880-20390-29	AH-8 (2'-3')	Soluble	Solid	DI Leach	
MB 880-36985/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36985/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36985/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 36985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1 MS	AH-1 (0'-1')	Soluble	Solid	DI Leach	
880-20390-1 MSD	AH-1 (0'-1')	Soluble	Solid	DI Leach	
880-20390-13 MS	AH-6 (2'-3')	Soluble	Solid	DI Leach	
880-20390-13 MSD	AH-6 (2'-3')	Soluble	Solid	DI Leach	

Leach Batch: 36988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-30	AH-8 (3'-4')	Soluble	Solid	DI Leach	
880-20390-31	AH-8 (4'-5')	Soluble	Solid	DI Leach	
MB 880-36988/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36988/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36988/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3202-A-6-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3202-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 37027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-30	AH-8 (3'-4')	Soluble	Solid	300.0	36988
880-20390-31	AH-8 (4'-5')	Soluble	Solid	300.0	36988
MB 880-36988/1-A	Method Blank	Soluble	Solid	300.0	36988
LCS 880-36988/2-A	Lab Control Sample	Soluble	Solid	300.0	36988
LCSD 880-36988/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36988
890-3202-A-6-C MS	Matrix Spike	Soluble	Solid	300.0	36988
890-3202-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	36988

Analysis Batch: 37030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1	AH-1 (0'-1')	Soluble	Solid	300.0	36985
880-20390-2	AH-2 (0'-1')	Soluble	Solid	300.0	36985
880-20390-3	AH-3 (0'-1')	Soluble	Solid	300.0	36985
880-20390-4	AH-4 (0'-1')	Soluble	Solid	300.0	36985
880-20390-5	AH-5 (0'-1')	Soluble	Solid	300.0	36985
880-20390-6	AH-5 (1'-2')	Soluble	Solid	300.0	36985
880-20390-7	AH-5 (2'-3')	Soluble	Solid	300.0	36985
880-20390-8	AH-5 (3'-4')	Soluble	Solid	300.0	36985
880-20390-11	AH-6 (0'-1')	Soluble	Solid	300.0	36985
880-20390-12	AH-6 (1'-2')	Soluble	Solid	300.0	36985
880-20390-13	AH-6 (2'-3')	Soluble	Solid	300.0	36985
880-20390-14	AH-6 (3'-4')	Soluble	Solid	300.0	36985
880-20390-17	AH-7 (0'-1')	Soluble	Solid	300.0	36985
880-20390-18	AH-7 (1'-2')	Soluble	Solid	300.0	36985
880-20390-19	AH-7 (2'-3')	Soluble	Solid	300.0	36985
880-20390-20	AH-7 (3'-4')	Soluble	Solid	300.0	36985
880-20390-21	AH-7 (4'-5')	Soluble	Solid	300.0	36985
880-20390-27	AH-8 (0'-1')	Soluble	Solid	300.0	36985
880-20390-28	AH-8 (1'-2')	Soluble	Solid	300.0	36985
880-20390-29	AH-8 (2'-3')	Soluble	Solid	300.0	36985
MB 880-36985/1-A	Method Blank	Soluble	Solid	300.0	36985
LCS 880-36985/2-A	Lab Control Sample	Soluble	Solid	300.0	36985
LCSD 880-36985/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36985
880-20390-1 MS	AH-1 (0'-1')	Soluble	Solid	300.0	36985

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 37030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20390-1 MSD	AH-1 (0'-1')	Soluble	Solid	300.0	36985
880-20390-13 MS	AH-6 (2'-3')	Soluble	Solid	300.0	36985
880-20390-13 MSD	AH-6 (2'-3')	Soluble	Solid	300.0	36985

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Lab Sample ID: 880-20390-1
Matrix: Solid
Date Collected: 10/13/22 12:00
Date Received: 10/14/22 11:24

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37264	10/19/22 21:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 20:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 04:34	CH	EET MID

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

Lab Sample ID: 880-20390-2
Matrix: Solid
Date Collected: 10/13/22 12:10
Date Received: 10/14/22 11:24

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37264	10/19/22 22:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 21:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 04:49	CH	EET MID

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

Lab Sample ID: 880-20390-3
Matrix: Solid
Date Collected: 10/13/22 12:20
Date Received: 10/14/22 11:24

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37264	10/19/22 22:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 22:06	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 04:54	CH	EET MID

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

Lab Sample ID: 880-20390-4
Matrix: Solid
Date Collected: 10/13/22 12:30
Date Received: 10/14/22 11:24

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37264	10/19/22 22:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-4 (0'-1')
Date Collected: 10/13/22 12:30
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-4
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			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 22:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 04:59	CH	EET MID

Client Sample ID: AH-5 (0'-1')
Date Collected: 10/13/22 12:40
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/19/22 23:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 23:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 05:03	CH	EET MID

Client Sample ID: AH-5 (1'-2')
Date Collected: 10/13/22 12:45
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/19/22 23:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 23:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 05:18	CH	EET MID

Client Sample ID: AH-5 (2'-3')
Date Collected: 10/13/22 12:50
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/20/22 00:09	MNR	EET MID
Total/NA	Prep	5035			5.01 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	37450	10/21/22 23:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-5 (2'-3')

Lab Sample ID: 880-20390-7
Matrix: Solid
Date Collected: 10/13/22 12:50
Date Received: 10/14/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 00:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 05:23	CH	EET MID

Client Sample ID: AH-5 (3'-4')

Lab Sample ID: 880-20390-8
Matrix: Solid
Date Collected: 10/13/22 12:55
Date Received: 10/14/22 11:24

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/20/22 00:29	MNR	EET MID
Total/NA	Prep	5035			4.99 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	37450	10/21/22 23:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 00:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 05:28	CH	EET MID

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

Lab Sample ID: 880-20390-9
Matrix: Solid
Date Collected: 10/13/22 13:00
Date Received: 10/14/22 11:24

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	37517	10/25/22 10:30	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	37728	10/25/22 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/26/22 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	37769	10/25/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37764	10/25/22 19:14	SM	EET MID

Client Sample ID: AH-5 (5'-6')

Lab Sample ID: 880-20390-10
Matrix: Solid
Date Collected: 10/13/22 13:05
Date Received: 10/14/22 11:24

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			37051	10/28/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38028	10/27/22 15:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37972	10/28/22 05:10	SM	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Date Collected: 10/13/22 13:10
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37264	10/19/22 23:08	MNR	EET MID
Total/NA	Prep	5035			4.98 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	37450	10/21/22 23:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 05:33	CH	EET MID

Client Sample ID: AH-6 (1'-2')

Date Collected: 10/13/22 13:15
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/20/22 00:50	MNR	EET MID
Total/NA	Prep	5035			4.99 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	37450	10/22/22 00:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 01:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 05:37	CH	EET MID

Client Sample ID: AH-6 (2'-3')

Date Collected: 10/13/22 13:20
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37264	10/20/22 02:12	MNR	EET MID
Total/NA	Prep	5035			5.02 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	37450	10/22/22 00:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 02:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 05:42	CH	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-6 (3'-4')

Date Collected: 10/13/22 13:25
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37264	10/20/22 02:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 22:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 05:57	CH	EET MID

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

Date Collected: 10/13/22 14:00
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-17

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/20/22 03:13	MNR	EET MID
Total/NA	Prep	5035			5.01 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	37450	10/22/22 00:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 02:26	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 06:02	CH	EET MID

Client Sample ID: AH-7 (1'-2')

Date Collected: 10/13/22 14:05
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	37264	10/20/22 04:14	MNR	EET MID
Total/NA	Prep	5035			5.01 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	37450	10/22/22 01:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 02:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 06:16	CH	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-7 (2'-3')

Date Collected: 10/13/22 14:10
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-19

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/20/22 04:35	MNR	EET MID
Total/NA	Prep	5035			5.03 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	37450	10/22/22 01:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 03:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 06:21	CH	EET MID

Client Sample ID: AH-7 (3'-4')

Date Collected: 10/13/22 14:15
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/20/22 04:55	MNR	EET MID
Total/NA	Prep	5035			4.98 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	37450	10/22/22 05:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 03:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 06:26	CH	EET MID

Client Sample ID: AH-7 (4'-5')

Date Collected: 10/13/22 14:20
Date Received: 10/14/22 11:24

Lab Sample ID: 880-20390-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	37450	10/22/22 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/24/22 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 03:53	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 06:31	CH	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Client Sample ID: AH-7 (5'-6')

Lab Sample ID: 880-20390-22
Matrix: Solid
Date Collected: 10/13/22 14:25
Date Received: 10/14/22 11:24

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	37517	10/25/22 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37728	10/25/22 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/26/22 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/26/22 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	37769	10/25/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37764	10/25/22 19:35	SM	EET MID

Client Sample ID: AH-7 (6'-7')

Lab Sample ID: 880-20390-23
Matrix: Solid
Date Collected: 10/13/22 14:30
Date Received: 10/14/22 11:24

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			37051	10/28/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38028	10/27/22 15:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37972	10/28/22 04:48	SM	EET MID

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

Lab Sample ID: 880-20390-27
Matrix: Solid
Date Collected: 10/13/22 14:50
Date Received: 10/14/22 11:24

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/20/22 03:34	MNR	EET MID
Total/NA	Prep	5035			5.05 mL	5 g	37393	10/20/22 10:33	EL	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	37450	10/22/22 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 06:36	CH	EET MID

Client Sample ID: AH-8 (1'-2')

Lab Sample ID: 880-20390-28
Matrix: Solid
Date Collected: 10/13/22 14:55
Date Received: 10/14/22 11:24

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	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	37264	10/20/22 03:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/15/22 04:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 06:40	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-20390-1
Project/Site: ETC Shurvesa Interconnect SDG: Lea County, NM

Client Sample ID: AH-8 (2'-3') Lab Sample ID: 880-20390-29

Date Collected: 10/13/22 15:00 **Matrix: Solid**
Date Received: 10/14/22 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	37155	10/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37264	10/20/22 02:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/20/22 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36992	10/14/22 15:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36920	10/14/22 23:11	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36985	10/14/22 15:04	KS	EET MID
Soluble	Analysis	300.0		1			37030	10/18/22 06:45	CH	EET MID

Client Sample ID: AH-8 (3'-4') Lab Sample ID: 880-20390-30

Date Collected: 10/13/22 15:05 **Matrix: Solid**
Date Received: 10/14/22 11:24

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	37156	10/17/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37265	10/19/22 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/19/22 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36937	10/14/22 16:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36924	10/14/22 19:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36988	10/14/22 15:06	KS	EET MID
Soluble	Analysis	300.0		1			37027	10/15/22 22:10	CH	EET MID

Client Sample ID: AH-8 (4'-5') Lab Sample ID: 880-20390-31

Date Collected: 10/13/22 15:10 **Matrix: Solid**
Date Received: 10/14/22 11:24

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	37156	10/17/22 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37265	10/19/22 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37337	10/19/22 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			37051	10/17/22 08:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36996	10/14/22 16:53	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	37013	10/15/22 18:45	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36988	10/14/22 15:06	KS	EET MID
Soluble	Analysis	300.0		1			37027	10/15/22 22:19	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

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

Protocol References:

ASTM = ASTM International

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:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shurvesa Interconnect

Job ID: 880-20390-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-20390-1	AH-1 (0'-1')	Solid	10/13/22 12:00	10/14/22 11:24	0'-1'
880-20390-2	AH-2 (0'-1')	Solid	10/13/22 12:10	10/14/22 11:24	0'-1'
880-20390-3	AH-3 (0'-1')	Solid	10/13/22 12:20	10/14/22 11:24	0'-1'
880-20390-4	AH-4 (0'-1')	Solid	10/13/22 12:30	10/14/22 11:24	0'-1'
880-20390-5	AH-5 (0'-1')	Solid	10/13/22 12:40	10/14/22 11:24	0'-1'
880-20390-6	AH-5 (1'-2')	Solid	10/13/22 12:45	10/14/22 11:24	1'-2'
880-20390-7	AH-5 (2'-3')	Solid	10/13/22 12:50	10/14/22 11:24	2'-3'
880-20390-8	AH-5 (3'-4')	Solid	10/13/22 12:55	10/14/22 11:24	3'-4'
880-20390-9	AH-5 (4'-5')	Solid	10/13/22 13:00	10/14/22 11:24	4'-5'
880-20390-10	AH-5 (5'-6')	Solid	10/13/22 13:05	10/14/22 11:24	5'-6'
880-20390-11	AH-6 (0'-1')	Solid	10/13/22 13:10	10/14/22 11:24	0'-1'
880-20390-12	AH-6 (1'-2')	Solid	10/13/22 13:15	10/14/22 11:24	1'-2'
880-20390-13	AH-6 (2'-3')	Solid	10/13/22 13:20	10/14/22 11:24	2'-3'
880-20390-14	AH-6 (3'-4')	Solid	10/13/22 13:25	10/14/22 11:24	3'-4'
880-20390-17	AH-7 (0'-1')	Solid	10/13/22 14:00	10/14/22 11:24	0'-1'
880-20390-18	AH-7 (1'-2')	Solid	10/13/22 14:05	10/14/22 11:24	1'-2'
880-20390-19	AH-7 (2'-3')	Solid	10/13/22 14:10	10/14/22 11:24	2'-3'
880-20390-20	AH-7 (3'-4')	Solid	10/13/22 14:15	10/14/22 11:24	3'-4'
880-20390-21	AH-7 (4'-5')	Solid	10/13/22 14:20	10/14/22 11:24	4'-5'
880-20390-22	AH-7 (5'-6')	Solid	10/13/22 14:25	10/14/22 11:24	5'-6'
880-20390-23	AH-7 (6'-7')	Solid	10/13/22 14:30	10/14/22 11:24	6'-7'
880-20390-27	AH-8 (0'-1')	Solid	10/13/22 14:50	10/14/22 11:24	0'-1'
880-20390-28	AH-8 (1'-2')	Solid	10/13/22 14:55	10/14/22 11:24	1'-2'
880-20390-29	AH-8 (2'-3')	Solid	10/13/22 15:00	10/14/22 11:24	2'-3'
880-20390-30	AH-8 (3'-4')	Solid	10/13/22 15:05	10/14/22 11:24	3'-4'
880-20390-31	AH-8 (4'-5')	Solid	10/13/22 15:10	10/14/22 11:24	4'-5'

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Chain of Custody

Houston TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad NM (575) 988-3199

Work Order No: 20390

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Project Manager	Joe Tyler	Bill to. (if different)	Ryan Reich
Company Name	Tetra Tech	Company Name	Energy Transfer
Address	901 West Wall St. Suite 100	Address	ryan.reich@energytransfer.com
City, State ZIP	Midland, Tx 79701	City, State ZIP	
Phone	(432) 210-6957	Email	joe.tyler@tetratech.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	ETC Shamrock Interconnect	Turn Around	
Project Number		☐ Routine ☑ Rush	
Project Location	Lea County, NM	Due Date	5-day
Sampler's Name	Joe Tyler	TAT starts the day received by the lab, if received by 4 30pm	
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	(Yes) No	
Samples Received Intact.	(Yes) No	Thermometer ID.	DT2E	
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	.20	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	3.8	
Total Containers		Corrected Temperature	3.8	

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH	BTEX	Chlorides	Hold
AH-1 (0'-1')	soil	10-13	1200	0'-1'	Grab	1		X	X	X	
AH-2 (0'-1')			1210					X	X	X	
AH-3 (0'-1')			1220					X	X	X	
AH-4 (0'-1')			1230					X	X	X	
AH-5 (0'-1')			1240	↓				X	X	X	
AH-5 (1'-2')			1245	(1-2')				X	X	X	
AH-5 (2'-3')			1250	(2-3')				X	X	X	
AH-5 (3-4)			1255	(3'-4')				X	X	X	
AH-5 (4'-5')			1300	(4'-5')							X
AH-5 (5'-6')	↓	↓	1305	(5-6')	↓	↓					X

880-20390 Chain of Custody

Sample Comments

Please Hold if above sample exceeds 600 ppm chlorides, 100 ppm (GRO + DRO + MRO), 50 ppm BTEX, or 10 ppm Benzene.

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 20390

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Project Manager	Joe Tyler	Bill to (if different)	Ryan Reich
Company Name	Tetra Tech	Company Name	Energy Transfer
Address		Address	ryan.reich@energytransfer.com
City, State ZIP		City, State ZIP	
Phone	Email	joe.tyler@tetratech.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	ETC Sherrosa Interconnect	Turn Around	
Project Number		☐ Routine ☒ Rush	
Project Location	Lea County, NM	Due Date	5-day
Sampler's Name	Joe Tyler	TAT starts the day received by the lab, if received by 4 30pm	
PO #			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Samples Received Intact.	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH	BTEX	Chlorides	Hold	Sample Comments
AH-6 (0-1')	Soil	10-13	1310	(0-1')	Grab	01		X	X	X		
(1-2')			1315	1-2'				X	X	X		Same "Hold"
(2-3')			1320	2-3				X	X	X		comment as Page
(3-4')			1325	3-4				X	X	X		01
(4-5')			1330	4-5							X	
(5-6')			1335	5-6							X	
AH-7 (0-1')			1400	0-1				X	X	X		
(1-2')			1405	1-2				X	X	X		
(2-3')			1410	2-3				X	X	X		
(3-4')			1415	3-4'				X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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Chain of Custody

Houston TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 20390

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Project Manager	Joe Tyler	Bill to (if different)	Ryan Resch
Company Name	Tetra Tech	Company Name	Energy Transfer
Address		Address	ryan.resch@energytransfer.com
City, State ZIP		City, State ZIP	
Phone	Email	joe.tyler@tetratech.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	ETC Shinnesa Interconnect	Turn Around	
Project Number		☐ Routine ☑ Rush	
Project Location	Lea County, NM	Due Date	5-day
Sampler's Name	Joe Tyler	TAT starts the day received by the lab, if received by 4 30pm	
PO #.			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Samples Received Intact.	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature		

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TPH	BTEX	Chlorides	Hold	Sample Comments
AH-7 (4'-5')	Soil	10-13	1420	(4-5)	Grab	01	X	X	X		
(5-6')			1425	(5-6)						X	Some "Hold" comment
(6-7')			1430	(6-7)						X	on Page 01
(7'-8')			1435	(7-8)						X	
(8'-9')			1440	(8-9)						X	
(9'-10')			1445	(9'-10')						X	
AH-8 (0 1')			1450	(0 1)			X	X	X		
(1'-2')			1455	(1-2)			X	X	X		
(2'-3')			1500	(2-3)			X	X	X		
(3'-4')			1505	(3-4)			X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 203910

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Project Manager	Joe Tyler	Bill to (if different)	Ryan Reith
Company Name	Tetra Tech	Company Name	Energy Transfer
Address		Address	ryan.reith@energytransfer.com
City, State ZIP		City, State ZIP	
Phone	Email	joe.tyler@tetratech.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	PTC Shumway Interconnect	Turn Around	
Project Number		☐ Routine ☒ Rush	
Project Location	Lea County, NM	Due Date	5-day
Sampler's Name	Joe Tyler	TAT starts the day received by the lab if received by 4 30pm	
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Samples Received Intact	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH	BTEX	Chlorides	Hold	Sample Comments
AH-8 (4'-5')	Soil	10-13	1510	(4-5)	Grab	01		X	X	X		
(5'-6')			1515	5-6							X	Same Hold amount
(6'-7')			1520	6-7							X	as Page 01
(7'-8')			1525	7-8							X	

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Joe Tyler		10/14/22 1124	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Loc: 880
20390

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-20390-1
SDG Number: Lea County, NM

Login Number: 20390
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joe Tyler
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/12/2022 3:41:32 PM

JOB DESCRIPTION

ETC Shervessa Interconnect
SDG NUMBER Lea County, NM

JOB NUMBER

880-22186-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

Authorization

Generated
12/12/2022 3:41:32 PM

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

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Laboratory Job ID: 880-22186-1
SDG: Lea County, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, 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. Job ID: 880-22186-1
Project/Site: ETC Shervessa Interconnect SDG: Lea County, NM

Job ID: 880-22186-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22186-1

Receipt
The samples were received on 12/2/2022 10:45 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 5.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-1 (0'-1') (880-22186-1), BH-1 (2'-3') (880-22186-2), BH-1 (4'-5') (880-22186-3), BH-1 (6'-7') (880-22186-4), BH-1 (9'-10') (880-22186-5), BH-1 (14'-15') (880-22186-6), BH-1 (19'-20') (880-22186-7), BH-2 (0'-1') (880-22186-8), BH-2 (2'-3') (880-22186-9), BH-2 (4'-5') (880-22186-10), BH-2 (6'-7') (880-22186-11), BH-2 (9'-10') (880-22186-12), BH-2 (14'-15') (880-22186-13) and BH-2 (19'-20') (880-22186-14).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-1 (4'-5') (880-22186-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-2 (4'-5') (880-22186-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-40820 and analytical batch 880-41321 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Instrument malfunction during LCS injection. Since only an acceptable LCS or LCSD is required per the method, the LCSD will show recovery for the batch therefore the data has been qualified and reported.(LCS 880-40820/1-A)

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41278 and analytical batch 880-41411 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-41278/2-A) and (LCSD 880-41278/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-22201-A-1-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-2 (6'-7') (880-22186-11) and BH-2 (9'-10') (880-22186-12). 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: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Client Sample ID: BH-1 (4'-5')

Lab Sample ID: 880-22186-3
Matrix: Solid
Date Collected: 12/01/22 12:20
Date Received: 12/02/22 10:45
Sample Depth: 4-5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0345**	***- *1**	0.00200		mg/Kg		12/08/22 15:34	12/08/22 23:31	1
Toluene	**0.0575**	***- *1**	0.00200		mg/Kg		12/08/22 15:34	12/08/22 23:31	1
Ethylbenzene	**0.299**		0.00200		mg/Kg		12/08/22 15:34	12/08/22 23:31	1
m-Xylene & p-Xylene	<0.0802	U	0.0802		mg/Kg		12/08/22 15:57	12/09/22 14:55	20
o-Xylene	<0.0401	U	0.0401		mg/Kg		12/08/22 15:57	12/09/22 14:55	20
Xylenes, Total	<0.0802	U	0.0802		mg/Kg		12/08/22 15:57	12/09/22 14:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*443*	*S1+*	*70 - 130*	*12/08/22 15:34*	*12/08/22 23:31*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*12/08/22 15:34*	*12/08/22 23:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.391**		0.0802		mg/Kg			12/09/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 10:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 16:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 16:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*12/07/22 12:02*	*12/09/22 16:06*	*1*
o-Terphenyl	*118*		*70 - 130*	*12/07/22 12:02*	*12/09/22 16:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.9**		4.99		mg/Kg			12/08/22 09:12	1

Client Sample ID: BH-1 (6'-7')

Lab Sample ID: 880-22186-4
Matrix: Solid
Date Collected: 12/01/22 12:30
Date Received: 12/02/22 10:45
Sample Depth: 6-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		12/08/22 15:34	12/08/22 23:51	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		12/08/22 15:34	12/08/22 23:51	1
Ethylbenzene	**0.00466**		0.00199		mg/Kg		12/08/22 15:34	12/08/22 23:51	1
m-Xylene & p-Xylene	**0.0364**		0.00398		mg/Kg		12/08/22 15:34	12/08/22 23:51	1
o-Xylene	**0.0180**	***+ *1**	0.00199		mg/Kg		12/08/22 15:34	12/08/22 23:51	1
Xylenes, Total	**0.0544**	***+ *1**	0.00398		mg/Kg		12/08/22 15:34	12/08/22 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/08/22 15:34*	*12/08/22 23:51*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Client Sample ID: BH-1 (6'-7')

Lab Sample ID: 880-22186-4
Matrix: Solid
Date Collected: 12/01/22 12:30
Date Received: 12/02/22 10:45
Sample Depth: 6-7'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/08/22 15:34*	*12/08/22 23:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0591**		0.00398		mg/Kg			12/09/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**386**		49.9		mg/Kg			12/12/22 10:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 16:50	1
Diesel Range Organics (Over C10-C28)	**386**		49.9		mg/Kg		12/07/22 12:02	12/09/22 16:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*12/07/22 12:02*	*12/09/22 16:50*	*1*
o-Terphenyl	*118*		*70 - 130*	*12/07/22 12:02*	*12/09/22 16:50*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.5**		4.96		mg/Kg			12/08/22 09:20	1

Client Sample ID: BH-1 (9'-10')

Lab Sample ID: 880-22186-5
Matrix: Solid
Date Collected: 12/01/22 12:40
Date Received: 12/02/22 10:45
Sample Depth: 9-10'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		12/08/22 15:34	12/09/22 00:12	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		12/08/22 15:34	12/09/22 00:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/08/22 15:34	12/09/22 00:12	1
m-Xylene & p-Xylene	**0.00890**		0.00398		mg/Kg		12/08/22 15:34	12/09/22 00:12	1
o-Xylene	<0.00199	U *+ *1	0.00199		mg/Kg		12/08/22 15:34	12/09/22 00:12	1
Xylenes, Total	**0.00890**	***+ *1**	0.00398		mg/Kg		12/08/22 15:34	12/09/22 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/08/22 15:34*	*12/09/22 00:12*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/08/22 15:34*	*12/09/22 00:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00890**		0.00398		mg/Kg			12/09/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 10:49	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Client Sample ID: BH-1 (9'-10')

Lab Sample ID: 880-22186-5
Matrix: Solid
Date Collected: 12/01/22 12:40
Date Received: 12/02/22 10:45
Sample Depth: 9-10'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 17:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 17:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*12/07/22 12:02*	*12/09/22 17:12*	*1*
o-Terphenyl	*120*		*70 - 130*	*12/07/22 12:02*	*12/09/22 17:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.9**		5.03		mg/Kg			12/08/22 09:28	1

Client Sample ID: BH-2 (4'-5')

Lab Sample ID: 880-22186-10
Matrix: Solid
Date Collected: 12/01/22 13:50
Date Received: 12/02/22 10:45
Sample Depth: 4'-5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		12/08/22 15:34	12/09/22 00:32	1
Toluene	**0.0123**	***- *1**	0.00200		mg/Kg		12/08/22 15:34	12/09/22 00:32	1
Ethylbenzene	**0.131**		0.00200		mg/Kg		12/08/22 15:34	12/09/22 00:32	1
m-Xylene & p-Xylene	**0.754**		0.00399		mg/Kg		12/08/22 15:34	12/09/22 00:32	1
o-Xylene	**0.353**	***+ *1**	0.00200		mg/Kg		12/08/22 15:34	12/09/22 00:32	1
Xylenes, Total	**1.11**	***+ *1**	0.00399		mg/Kg		12/08/22 15:34	12/09/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*278*	*S1+*	*70 - 130*	*12/08/22 15:34*	*12/09/22 00:32*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/08/22 15:34*	*12/09/22 00:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.25**		0.00399		mg/Kg			12/09/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**696**		49.9		mg/Kg			12/12/22 10:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**192**		49.9		mg/Kg		12/07/22 12:02	12/09/22 17:35	1
Diesel Range Organics (Over C10-C28)	**504**		49.9		mg/Kg		12/07/22 12:02	12/09/22 17:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*12/07/22 12:02*	*12/09/22 17:35*	*1*
o-Terphenyl	*125*		*70 - 130*	*12/07/22 12:02*	*12/09/22 17:35*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Client Sample ID: BH-2 (4'-5')
Lab Sample ID: 880-22186-10
Date Collected: 12/01/22 13:50
Matrix: Solid
Date Received: 12/02/22 10:45
Sample Depth: 4'-5'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.6**		5.00		mg/Kg			12/08/22 09:36	1

Client Sample ID: BH-2 (6'-7')
Lab Sample ID: 880-22186-11
Date Collected: 12/01/22 14:00
Matrix: Solid
Date Received: 12/02/22 10:45
Sample Depth: 6-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		12/08/22 15:34	12/09/22 00:53	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		12/08/22 15:34	12/09/22 00:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/08/22 15:34	12/09/22 00:53	1
m-Xylene & p-Xylene	**0.00534**		0.00402		mg/Kg		12/08/22 15:34	12/09/22 00:53	1
o-Xylene	**0.00215**	***+ *1**	0.00201		mg/Kg		12/08/22 15:34	12/09/22 00:53	1
Xylenes, Total	**0.00749**	***+ *1**	0.00402		mg/Kg		12/08/22 15:34	12/09/22 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/08/22 15:34*	*12/09/22 00:53*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/08/22 15:34*	*12/09/22 00:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00749**		0.00402		mg/Kg			12/09/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/12/22 10:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/07/22 12:02	12/09/22 17:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:02	12/09/22 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:02	12/09/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*12/07/22 12:02*	*12/09/22 17:56*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*12/07/22 12:02*	*12/09/22 17:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.7**		4.99		mg/Kg			12/08/22 09:44	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Client Sample ID: BH-2 (9'-10')

Date Collected: 12/01/22 14:10
Date Received: 12/02/22 10:45
Sample Depth: 9-10'

Lab Sample ID: 880-22186-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		12/08/22 15:34	12/09/22 01:13	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		12/08/22 15:34	12/09/22 01:13	1
Ethylbenzene	**0.00240**		0.00200		mg/Kg		12/08/22 15:34	12/09/22 01:13	1
m-Xylene & p-Xylene	**0.00842**		0.00401		mg/Kg		12/08/22 15:34	12/09/22 01:13	1
o-Xylene	**0.00334**	***+ *1**	0.00200		mg/Kg		12/08/22 15:34	12/09/22 01:13	1
Xylenes, Total	**0.0118**	***+ *1**	0.00401		mg/Kg		12/08/22 15:34	12/09/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*12/08/22 15:34*	*12/09/22 01:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/08/22 15:34*	*12/09/22 01:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0142**		0.00401		mg/Kg			12/09/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 10:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 18:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 18:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/07/22 12:02	12/09/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*12/07/22 12:02*	*12/09/22 18:18*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*12/07/22 12:02*	*12/09/22 18:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.7**		4.96		mg/Kg			12/08/22 09:52	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-22186-3	BH-1 (4'-5')	443 S1+	131 S1+
880-22186-4	BH-1 (6'-7')	117	107
880-22186-5	BH-1 (9'-10')	105	110
880-22186-10	BH-2 (4'-5')	278 S1+	95
880-22186-11	BH-2 (6'-7')	117	105
880-22186-12	BH-2 (9'-10')	121	98
880-22501-A-2-B MS	Matrix Spike	130	97
880-22501-A-2-C MSD	Matrix Spike Duplicate	119	110
890-3582-A-1-C MS	Matrix Spike	120	99
890-3582-A-1-D MSD	Matrix Spike Duplicate	111	111
LCS 880-40820/1-A	Lab Control Sample	124	462 S1+
LCS 880-41393/1-A	Lab Control Sample	101	111
LCSD 880-40820/2-A	Lab Control Sample Dup	115	111
LCSD 880-41393/2-A	Lab Control Sample Dup	104	112
MB 880-40820/5-B	Method Blank	85	102
MB 880-41324/5-A	Method Blank	92	101
MB 880-41393/5-A	Method Blank	86	100

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)
880-22186-3	BH-1 (4'-5')	113	118
880-22186-4	BH-1 (6'-7')	111	118
880-22186-5	BH-1 (9'-10')	114	120
880-22186-10	BH-2 (4'-5')	118	125
880-22186-11	BH-2 (6'-7')	128	132 S1+
880-22186-12	BH-2 (9'-10')	136 S1+	140 S1+
880-22201-A-1-C MS	Matrix Spike	114	110
880-22201-A-1-D MSD	Matrix Spike Duplicate	117	114
LCS 880-41278/2-A	Lab Control Sample	119	137 S1+
LCSD 880-41278/3-A	Lab Control Sample Dup	128	133 S1+
MB 880-41278/1-A	Method Blank	106	144 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40820/5-B
Matrix: Solid
Analysis Batch: 41321

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:34	12/08/22 21:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:34	12/08/22 21:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:34	12/08/22 21:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/08/22 15:34	12/08/22 21:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:34	12/08/22 21:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/08/22 15:34	12/08/22 21:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/08/22 15:34*	*12/08/22 21:48*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/08/22 15:34*	*12/08/22 21:48*	*1*

Lab Sample ID: LCS 880-40820/1-A
Matrix: Solid
Analysis Batch: 41321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40820

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.05817	*-	mg/Kg		58	70 - 130		
Toluene			0.100	0.06930	*-	mg/Kg		69	70 - 130		
Ethylbenzene			0.100	0.08978		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.2082		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*462*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-40820/2-A
Matrix: Solid
Analysis Batch: 41321

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40820

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1063	*1	mg/Kg		106	70 - 130	59	35
Toluene			0.100	0.1033	*1	mg/Kg		103	70 - 130	39	35
Ethylbenzene			0.100	0.1057		mg/Kg		106	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.2272		mg/Kg		114	70 - 130	9	35
o-Xylene			0.100	0.1129	*1	mg/Kg		113	70 - 130	194	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 890-3582-A-1-C MS
Matrix: Solid
Analysis Batch: 41321

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 40820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1 *- *1	0.100	0.06007	F1	mg/Kg		59	70 - 130		
Toluene	<0.00200	U *- *1	0.100	0.07303		mg/Kg		72	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09562		mg/Kg		94	70 - 130		

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

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

Lab Sample ID: 890-3582-A-1-C MS
Matrix: Solid
Analysis Batch: 41321

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 40820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1833		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U *+ *1	0.100	0.08643		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-3582-A-1-D MSD
Matrix: Solid
Analysis Batch: 41321

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 40820

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 *- *1	0.0990	0.07880		mg/Kg		79	70 - 130	27	35
Toluene	<0.00200	U *- *1	0.0990	0.07521		mg/Kg		75	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0990	0.08114		mg/Kg		81	70 - 130	16	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1687		mg/Kg		84	70 - 130	8	35
o-Xylene	<0.00200	U *+ *1	0.0990	0.08742		mg/Kg		87	70 - 130	1	35

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

Lab Sample ID: MB 880-41324/5-A
Matrix: Solid
Analysis Batch: 41321

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/08/22 08:55	12/08/22 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/08/22 08:55	12/08/22 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/08/22 08:55	12/08/22 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/08/22 08:55	12/08/22 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/08/22 08:55	12/08/22 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/08/22 08:55	12/08/22 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/08/22 08:55*	*12/08/22 11:14*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/08/22 08:55*	*12/08/22 11:14*	*1*

Lab Sample ID: MB 880-41393/5-A
Matrix: Solid
Analysis Batch: 41420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:57	12/09/22 11:50	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-41393/5-A
Matrix: Solid
Analysis Batch: 41420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/08/22 15:57	12/09/22 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/08/22 15:57*	*12/09/22 11:50*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/08/22 15:57*	*12/09/22 11:50*	*1*

Lab Sample ID: LCS 880-41393/1-A
Matrix: Solid
Analysis Batch: 41420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1221		mg/Kg		122	70 - 130
Toluene	0.100	0.1089		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-41393/2-A
Matrix: Solid
Analysis Batch: 41420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41393

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1225		mg/Kg		122	70 - 130	0	35
Toluene	0.100	0.1087		mg/Kg		109	70 - 130	0	35
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2133		mg/Kg		107	70 - 130	3	35
o-Xylene	0.100	0.1043		mg/Kg		104	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-22501-A-2-B MS
Matrix: Solid
Analysis Batch: 41420

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 41393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0996	0.06886	F1	mg/Kg		69	70 - 130
Toluene	<0.00200	U	0.0996	0.08028		mg/Kg		80	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.09737		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1845		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.0996	0.09102		mg/Kg		90	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

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

Lab Sample ID: 880-22501-A-2-B MS
Matrix: Solid
Analysis Batch: 41420

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 41393

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-22501-A-2-C MSD
Matrix: Solid
Analysis Batch: 41420

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 41393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.08057		mg/Kg		80	70 - 130	16	35
Toluene	<0.00200	U	0.100	0.07763		mg/Kg		77	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.08214		mg/Kg		82	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1646		mg/Kg		82	70 - 130	11	35
o-Xylene	<0.00200	U	0.100	0.08694		mg/Kg		85	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

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

Lab Sample ID: MB 880-41278/1-A
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41278

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		12/07/22 12:02	12/09/22 09:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/07/22 12:02	12/09/22 09:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/07/22 12:02	12/09/22 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*106*		*70 - 130*	*12/07/22 12:02*	*12/09/22 09:13*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*12/07/22 12:02*	*12/09/22 09:13*	*1*

Lab Sample ID: LCS 880-41278/2-A
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	987.9		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1009		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*137*	*S1+*	*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-41278/3-A
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41278

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	872.7		mg/Kg		87	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	895.6		mg/Kg		90	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*128*		*70 - 130*
o-Terphenyl	*133*	*S1+*	*70 - 130*

Lab Sample ID: 880-22201-A-1-C MS
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 41278

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	999	1092		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1100		mg/Kg		110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 880-22201-A-1-D MSD
Matrix: Solid
Analysis Batch: 41411

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 41278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1184		mg/Kg		115	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1136		mg/Kg		114	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40974/1-A
Matrix: Solid
Analysis Batch: 41272

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			12/08/22 07:34	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40974/2-A
Matrix: Solid
Analysis Batch: 41272

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-40974/3-A
Matrix: Solid
Analysis Batch: 41272

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	239.3		mg/Kg		96	90 - 110	5	20

Lab Sample ID: 880-22186-12 MS
Matrix: Solid
Analysis Batch: 41272

Client Sample ID: BH-2 (9'-10')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	26.7		248	252.2		mg/Kg		91	90 - 110		

Lab Sample ID: 880-22186-12 MSD
Matrix: Solid
Analysis Batch: 41272

Client Sample ID: BH-2 (9'-10')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	26.7		248	260.4		mg/Kg		94	90 - 110	3	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

GC VOA

Prep Batch: 40820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Total/NA	Solid	5035	
880-22186-4	BH-1 (6'-7')	Total/NA	Solid	5035	
880-22186-5	BH-1 (9'-10')	Total/NA	Solid	5035	
880-22186-10	BH-2 (4'-5')	Total/NA	Solid	5035	
880-22186-11	BH-2 (6'-7')	Total/NA	Solid	5035	
880-22186-12	BH-2 (9'-10')	Total/NA	Solid	5035	
MB 880-40820/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-40820/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40820/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3582-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3582-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 41321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Total/NA	Solid	8021B	40820
880-22186-4	BH-1 (6'-7')	Total/NA	Solid	8021B	40820
880-22186-5	BH-1 (9'-10')	Total/NA	Solid	8021B	40820
880-22186-10	BH-2 (4'-5')	Total/NA	Solid	8021B	40820
880-22186-11	BH-2 (6'-7')	Total/NA	Solid	8021B	40820
880-22186-12	BH-2 (9'-10')	Total/NA	Solid	8021B	40820
MB 880-40820/5-B	Method Blank	Total/NA	Solid	8021B	40820
MB 880-41324/5-A	Method Blank	Total/NA	Solid	8021B	41324
LCS 880-40820/1-A	Lab Control Sample	Total/NA	Solid	8021B	40820
LCSD 880-40820/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40820
890-3582-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	40820
890-3582-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40820

Prep Batch: 41324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41324/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 41393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Total/NA	Solid	5035	
MB 880-41393/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41393/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41393/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22501-A-2-B MS	Matrix Spike	Total/NA	Solid	5035	
880-22501-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 41420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Total/NA	Solid	8021B	41393
MB 880-41393/5-A	Method Blank	Total/NA	Solid	8021B	41393
LCS 880-41393/1-A	Lab Control Sample	Total/NA	Solid	8021B	41393
LCSD 880-41393/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41393
880-22501-A-2-B MS	Matrix Spike	Total/NA	Solid	8021B	41393
880-22501-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	41393

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 41486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Total/NA	Solid	Total BTEX	
880-22186-4	BH-1 (6'-7')	Total/NA	Solid	Total BTEX	
880-22186-5	BH-1 (9'-10')	Total/NA	Solid	Total BTEX	
880-22186-10	BH-2 (4'-5')	Total/NA	Solid	Total BTEX	
880-22186-11	BH-2 (6'-7')	Total/NA	Solid	Total BTEX	
880-22186-12	BH-2 (9'-10')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Total/NA	Solid	8015NM Prep	
880-22186-4	BH-1 (6'-7')	Total/NA	Solid	8015NM Prep	
880-22186-5	BH-1 (9'-10')	Total/NA	Solid	8015NM Prep	
880-22186-10	BH-2 (4'-5')	Total/NA	Solid	8015NM Prep	
880-22186-11	BH-2 (6'-7')	Total/NA	Solid	8015NM Prep	
880-22186-12	BH-2 (9'-10')	Total/NA	Solid	8015NM Prep	
MB 880-41278/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41278/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22201-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-22201-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Total/NA	Solid	8015B NM	41278
880-22186-4	BH-1 (6'-7')	Total/NA	Solid	8015B NM	41278
880-22186-5	BH-1 (9'-10')	Total/NA	Solid	8015B NM	41278
880-22186-10	BH-2 (4'-5')	Total/NA	Solid	8015B NM	41278
880-22186-11	BH-2 (6'-7')	Total/NA	Solid	8015B NM	41278
880-22186-12	BH-2 (9'-10')	Total/NA	Solid	8015B NM	41278
MB 880-41278/1-A	Method Blank	Total/NA	Solid	8015B NM	41278
LCS 880-41278/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41278
LCSD 880-41278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41278
880-22201-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	41278
880-22201-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41278

Analysis Batch: 41623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Total/NA	Solid	8015 NM	
880-22186-4	BH-1 (6'-7')	Total/NA	Solid	8015 NM	
880-22186-5	BH-1 (9'-10')	Total/NA	Solid	8015 NM	
880-22186-10	BH-2 (4'-5')	Total/NA	Solid	8015 NM	
880-22186-11	BH-2 (6'-7')	Total/NA	Solid	8015 NM	
880-22186-12	BH-2 (9'-10')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Soluble	Solid	DI Leach	
880-22186-4	BH-1 (6'-7')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 40974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-5	BH-1 (9'-10')	Soluble	Solid	DI Leach	
880-22186-10	BH-2 (4'-5')	Soluble	Solid	DI Leach	
880-22186-11	BH-2 (6'-7')	Soluble	Solid	DI Leach	
880-22186-12	BH-2 (9'-10')	Soluble	Solid	DI Leach	
MB 880-40974/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40974/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40974/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22186-12 MS	BH-2 (9'-10')	Soluble	Solid	DI Leach	
880-22186-12 MSD	BH-2 (9'-10')	Soluble	Solid	DI Leach	

Analysis Batch: 41272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22186-3	BH-1 (4'-5')	Soluble	Solid	300.0	40974
880-22186-4	BH-1 (6'-7')	Soluble	Solid	300.0	40974
880-22186-5	BH-1 (9'-10')	Soluble	Solid	300.0	40974
880-22186-10	BH-2 (4'-5')	Soluble	Solid	300.0	40974
880-22186-11	BH-2 (6'-7')	Soluble	Solid	300.0	40974
880-22186-12	BH-2 (9'-10')	Soluble	Solid	300.0	40974
MB 880-40974/1-A	Method Blank	Soluble	Solid	300.0	40974
LCS 880-40974/2-A	Lab Control Sample	Soluble	Solid	300.0	40974
LCSD 880-40974/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40974
880-22186-12 MS	BH-2 (9'-10')	Soluble	Solid	300.0	40974
880-22186-12 MSD	BH-2 (9'-10')	Soluble	Solid	300.0	40974

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Client Sample ID: BH-1 (4'-5')
Date Collected: 12/01/22 12:20
Date Received: 12/02/22 10:45

Lab Sample ID: 880-22186-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40820	12/08/22 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41321	12/08/22 23:31	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	41393	12/08/22 15:57	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	41420	12/09/22 14:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41486	12/09/22 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41623	12/12/22 10:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41278	12/07/22 12:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 16:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40974	12/03/22 16:38	SMC	EET MID
Soluble	Analysis	300.0		1			41272	12/08/22 09:12	CH	EET MID

Client Sample ID: BH-1 (6'-7')
Date Collected: 12/01/22 12:30
Date Received: 12/02/22 10:45

Lab Sample ID: 880-22186-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40820	12/08/22 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41321	12/08/22 23:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41486	12/09/22 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41623	12/12/22 10:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41278	12/07/22 12:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 16:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40974	12/03/22 16:38	SMC	EET MID
Soluble	Analysis	300.0		1			41272	12/08/22 09:20	CH	EET MID

Client Sample ID: BH-1 (9'-10')
Date Collected: 12/01/22 12:40
Date Received: 12/02/22 10:45

Lab Sample ID: 880-22186-5
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			5.03 g	5 mL	40820	12/08/22 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41321	12/09/22 00:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41486	12/09/22 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41623	12/12/22 10:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41278	12/07/22 12:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 17:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40974	12/03/22 16:38	SMC	EET MID
Soluble	Analysis	300.0		1			41272	12/08/22 09:28	CH	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Client Sample ID: BH-2 (4'-5')
Date Collected: 12/01/22 13:50
Date Received: 12/02/22 10:45

Lab Sample ID: 880-22186-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40820	12/08/22 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41321	12/09/22 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41486	12/09/22 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41623	12/12/22 10:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41278	12/07/22 12:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 17:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40974	12/03/22 16:38	SMC	EET MID
Soluble	Analysis	300.0		1			41272	12/08/22 09:36	CH	EET MID

Client Sample ID: BH-2 (6'-7')
Date Collected: 12/01/22 14:00
Date Received: 12/02/22 10:45

Lab Sample ID: 880-22186-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40820	12/08/22 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41321	12/09/22 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41486	12/09/22 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41623	12/12/22 10:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41278	12/07/22 12:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 17:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40974	12/03/22 16:38	SMC	EET MID
Soluble	Analysis	300.0		1			41272	12/08/22 09:44	CH	EET MID

Client Sample ID: BH-2 (9'-10')
Date Collected: 12/01/22 14:10
Date Received: 12/02/22 10:45

Lab Sample ID: 880-22186-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40820	12/08/22 15:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41321	12/09/22 01:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41486	12/09/22 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41623	12/12/22 10:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41278	12/07/22 12:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41411	12/09/22 18:18	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40974	12/03/22 16:38	SMC	EET MID
Soluble	Analysis	300.0		1			41272	12/08/22 09:52	CH	EET MID

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

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

Protocol References:

ASTM = ASTM International

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:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: ETC Shervessa Interconnect

Job ID: 880-22186-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-22186-3	BH-1 (4'-5')	Solid	12/01/22 12:20	12/02/22 10:45	4-5'
880-22186-4	BH-1 (6'-7')	Solid	12/01/22 12:30	12/02/22 10:45	6-7'
880-22186-5	BH-1 (9'-10')	Solid	12/01/22 12:40	12/02/22 10:45	9-10'
880-22186-10	BH-2 (4'-5')	Solid	12/01/22 13:50	12/02/22 10:45	4'-5'
880-22186-11	BH-2 (6'-7')	Solid	12/01/22 14:00	12/02/22 10:45	6-7'
880-22186-12	BH-2 (9'-10')	Solid	12/01/22 14:10	12/02/22 10:45	9-10'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392 7550, Carlsbad, NM (575) 988-3199

Work Order No: 22186

www.xenco.com Page 01 of 02

Project Manager:	Joe Tyler	Bill to: (if different)	Ryan Reich
Company Name:	Tetra Tech	Company Name:	Energy Transfer
Address:	901 West Wall Street, Suite 100	Address:	ryan.reich@energytransfer.com
City, State ZIP:	Midland, Texas 79701	City, State ZIP:	
Phone:	(432) 210-4953 Email	joe.tyler@tetratech.com	

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	ETC Sherwood Interconnect	Turn Around	
Project Number:		☐ Routine ☒ Rush	Pres. Code
Project Location	Lea County, NM	Due Date:	5-day
Sampler's Name:	Joe Tyler	TAT starts the day received by the lab, if received by 4:30pm	
PO #			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.30
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.9
Total Containers:		Corrected Temperature:	5.6

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH	BTEX	Chlorides	Hold
BH-1 (0'-1')	Soil	12-01	1200	0-1'	Grab	1				X
(2'-3')			1210	2-3'						X
(4'-5')			1220	4-5'			X	X	X	
(6'-7')			1230	6-7'			X	X	X	
(9'-10')			1240	9-10'			X	X	X	
(14'-15')			1250	14-15'						X
(19'-20')			1300	19-20'						X
BH-2 (0'-1')			1330	0-1'						X
(2'-3')			1340	2'-3'						X
(4'-5')			1350	4-5'			X	X	X	

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL. HC HNO_3 HN
H_2SO_4. H_2 NaOH Na
H_3PO_4 HP
NaHSO 4. NABIS
$Na_2S_2O_3$ NaSO 3
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Hold samples may be requested to be ran at later date
407

880-22186 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Joe Tyler		12/2/22 1045	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392 7550, Carlsbad, NM (575) 988-3199

Work Order No: 22186

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Project Manager:	Joe Tyler	Bill to: (if different)	Lynn Resch
Company Name:	Tetra Tech	Company Name:	Energy Transfer
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone	Email:		

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	ETC Stingray Interconnect	Turn Around	
Project Number:		☐ Routine ☒ Rush	
Project Location:	Lea County, NM	Due Date:	5-day
Sampler's Name:	Joe Tyler	TAT starts the day received by the lab, if received by 4:30pm	
PO #			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers.		Corrected Temperature:		

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH	BTEX	Chlorides	Hold
BH-2 (6-7')	Soil	12-01	1400	6-7'	Grab	1		X	X	X	
(9'-10')			1410	9'-10'				X	X	X	
(14'-15')			1420	14'-15'							X
(19'-20')			1430	19'-20'							X

Sample Comments

Some

Loc: 880
22186

Parameters

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Joe Tyler		12/2/22 1045	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-22186-1
SDG Number: Lea County, NM

Login Number: 22186
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 173911
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Please provide information and MSDS sheet on corrosion inhibitor released. Please test confirmation soil samples for constituents not listed in Table 1 of 19.15.29 NMAC for corrosion inhibitor. Variance for 500ft2 is not approved, release is not massive enough to warrant 500ft2 and laboratory narrative has some lab samples suspect. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of depth to groundwater.	1/31/2023