State of New Mexico
Oil Conservation Division

Incident ID	NAPP2108248771
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rob Kirk Title: VP & GM, HSE & Compliance

Signature: _____ Date: 10/6/2022

email: rob.kirk@ariswater.com Telephone: 469-978-5620

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2108248771
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rob Kirk Title: VP & GM, HSE & Compliance

Signature: Date: 10/6/2022

email: rob.kirk@ariswater.com Telephone: 469-978-5620

OCD Only

Received by: Date:

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

Closure Approved by: Jennifer Nobui Date: 10/17/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

SITE INFORMATION

Report Type: Closure Report NAPP2108248771

General Site Information:						
Site:	**Palmilla to State HU Line**					
Company:	**Solaris Water Midstream, LLC**					
Section, Township and Range	**Unit D**	**Sec. 22**	**T 19S**	**R 28E**		
Lease Number:						
County:	**Eddy County**					
GPS:	**32.65298**			**-104.16948**		
Surface Owner:	**State**					
Mineral Owner:						
Directions:	From intersection 229 & 235, travel south for 3.11 miles. Turn right onto lease road (hillbilly road), follow for 0.58 miles. Turn right onto lease road, follow for 0.96 miles. Turn right onto lease road, follow for 0.33 miles, origin of release located on left.					

Release Data:	
Date Released:	3/22/2021
Type Release:	Produced Water
Source of Contamination:	Failed temporary lay flat line
Fluid Released:	125 bbl
Fluids Recovered:	50 bbl

Official Communication:			
Name:	Rob Kirk		Clair Gonzales
Company:	Solaris Water Midstream, LLC		Tetra Tech
Address:	907 Tradewinds Blvd,		901 West Wall Street
	Ste B		Suite 100
City:	Midland, Texas 79706		Midland, Texas
Phone number:	(469) 978-5620		(432) 682-4559
Fax:			
Email:	rob.kirk@solarismidstream.com		Clair.Gonzales@tetratech.com

Site Characterization	
Depth to Groundwater:	*246.38' Below Surface*
Karst Potential:	*Low*

Recommended Remedial Action Levels (RRALs)				
Benzene	***Total BTEX***	***TPH (GRO+DRO)***	***TPH (GRO+DRO+MRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*1,000 mg/kg*	*2,500 mg/kg*	*20,000 mg/kg*

TETRA TECH

September 28, 2022

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

RE: Closure Report
Solaris Water Midstream, LLC (Solaris)
Palmilla to State HU Line
Eddy County, New Mexico
nAPP2108248771

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Solaris Water Midstream, LLC (Solaris) to assess a release that occurred at the Palmilla to State HU Line, Unit D, Section 22, Township 19 South, Range 28 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.65298°, -104.16948°. The site location is shown on **Figures 1** and **2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Palmilla to State HU Line was caused by a failed temporary lay-flat hose, causing the release of 125 bbls of produced water. The release flowed along the lease road and in the surrounding pasture, impacting an area of 1,800' X 30'. Additionally, approximately 50 bbls of fluids were recovered. On May 22, 2021, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

Site Characterization

Significant Water Features

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

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundaries, defined municipal fresh water well field, or a school district. Additionally, there were no occupied

permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the two closest water wells within a 2 mile radius of the Site. The well reported on the USGS National Water Information System reports a total depth of 365 ft bgs with water level measured at 246.38 ft bgs and is approximately 1.56 miles of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 365 ft bgs and measured water level of 265 ft bgs and is approximately 1.86 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
1.56 Miles	2/19/1999	USGS	365’	246.38’
1.86 Miles	5/25/1971	NMOSE	365’	265’

Depth to Water Determination

On January 10, 2022, Vision Resources, Inc was onsite to a drill a groundwater determination borehole to 115' below ground surface and within a ½ mile radius of the location. The borehole was left open for 72 hours and checked for the presence of groundwater. No water was detected in the borehole at 115' below surface. The borehole coordinates are 32.652972°, -104.169472°. The Well Record & Log, Plugging Record, and borehole figure is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL beyond the top 4.0’ of soil, for TPH is 1,000 mg/kg (GRO + DRO) and 2,500 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL beyond the top 4.0’ of soil, for chlorides is 20,000 mg/kg.

Site Assessment Activities

Tetra Tech conducted site assessment activities on April 9 2022, a total of thirty (30) auger holes (AH-1 through AH-30) were installed to depths ranging from surface to 4.5 ft bgs to attempt to assess and vertically delineate the impacted the area. Additionally, a total of thirty

(30) horizontals (H-1 through H-30) were installed to total depths of 0.5 ft bgs, to horizontally delineate the impact. The impact and sample locations are shown on **Figure 3A** and **3B.**

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

Referring to Table 1, auger hole (AH-29) indicated TPH concentrations above RRALs, with concentrations ranging from 154 mg/kg to 278 mg/kg, at depths of surface and 1.5 ft bgs. Additionally, the areas of auger holes (AH-1 through AH-11, AH-17, AH-20 through AH-24, and AH-26 through AH-30) indicated chloride concentrations above RRALs, with concentrations ranging from 752 mg/kg to 90,400 mg/kg, at depths ranging from surface to 4.0 ft bgs. The areas of auger holes (AH-4, AH-7, AH-11, AH-17, AH-23, and AH-26 through AH-29) were not vertically delineated during site assessment activities. Additionally, all horizontals (H-1 through H-30) indicated benzene, BTEX, and TPH concentrations below RRALs.

Based on the data collected during site assessment activities, a work plan outlining the proposed remediation was submitted on February 10, 2022, and approved by the NMOCD.

Remediation Activities

Based on the laboratory data, Tetra Tech conducted the site remediation between May 31, 2022 and August 5, 2022. The areas of impact were remediated to depths ranging from 1.0 ft bgs to 5.0 ft bgs. The areas of auger holes (AH-22 through AH-24) were excavated to 1.0 ft bgs, areas of auger holes (AH-1 and AH-17) were excavated to 2.0 ft bgs, the areas of auger holes (AH-3 through AH-5, AH-20, and AH-21) were excavated to 4.0 ft bgs, and the areas of auger holes (AH-2, AH-6 through AH-11, and AH-26 through AH-30) were excavated to depths ranging from 4.5 ft bgs to 5.0 ft bgs in order to remove the impacted material. The remediation areas and depths are shown on **Figure 4A** and **4B.**

Following remediation activites, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 500 square feet within the remediation, as approved by the NMOCD and NMSLO from the work plan dated February 10, 2022. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of full depth of sidewalls and the entire floor of the excavation are collected. The confirmation sample notification was sent to the NMOCD via email, on June 1, 2022, at 10:47 AM, a copy of the notice is shown in **Appendix D.** A total of eighty-seven (87) bottom holes (BH-1 through BH-86, and BH-65A) were collected and a total of one hundred two (102) sidewalls (SW-1 through SW-102) were collected to confirm full removal of impacted soil. Bottom hole (BH-65A) was mistakenly named the same as previously collected bottom hole sample (BH-65). Due to this mistake, the letter “A” has been added to the sample ID on the table and figure to clarify sample identities. The bottom hole (BH-65) was collected on July 19, 2022, and the sample results are shown on lab report (Eurofins 890-2642-1), shown in **Appendix C**. The bottom hole (BH-65A) was collected on July 15, 2022, and the sample results are shown on lab report (Eurofins 890-2566-1), shown in **Appendix C**. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico and Eurofins Laboratory in Midland, Texas to be analyzed for TPH method 8015 modified, BTEX method

8021B, and Chloride by EPA Method 300.0 and EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix C**.

Regarding all final samples collected from the remediation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs.

Conclusions

Based on the C-141 (nAPP2108248771) and information provided by Solaris, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activites, and the groundwater determination bore that was installed, the RRALs of 20,000 mg/kg for chlorides, 1,000 mg/kg for TPH (DRO + GRO), and 2,500 mg/kg for total TPH were followed for soil beyond the top 4.0 ft of soil. Based on Tetra Tech assessment activites, laboratory results indicated chloride concentrations in auger holes (AH-1 through AH-11, AH-17, AH-20 through AH-24, and AH-26 through AH-30) exceeded RRALs and required remediation.

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 8,604 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents. Based on this information, it is recommended that the Site requires no further action. The final C-141 is included in **Appendix A**.

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

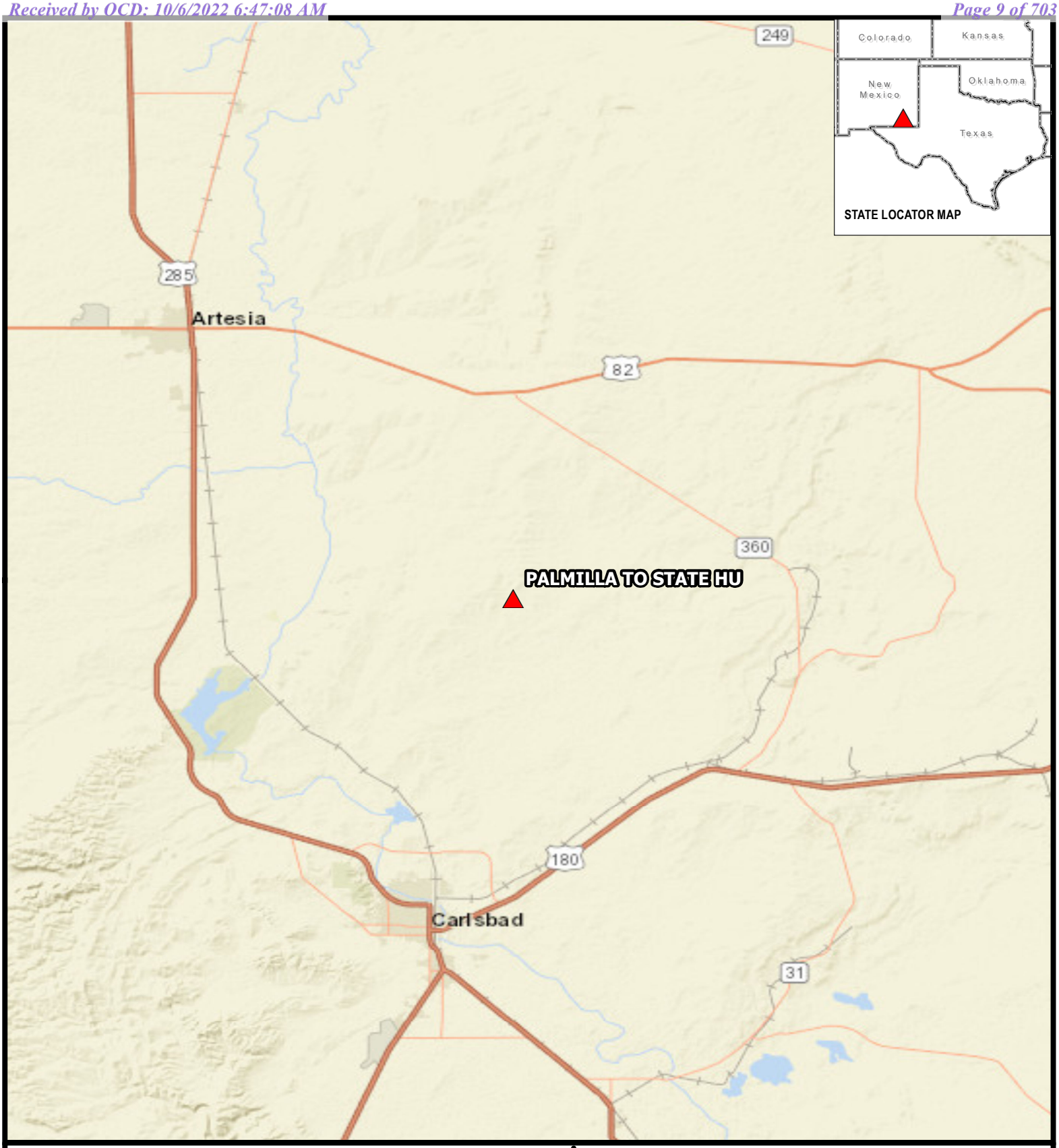
Respectfully submitted,
TETRA TECH

Brittany Long,
Project Manager

Clair Gonzales, P.G.
Senior Project Manager

TETRA TECH

Figures



SITE LOCATION

N
W
E
S

0 4 8 Miles

Approximate Scale

Service Layer Credits: ESRI Basemap - Streets, 2021.

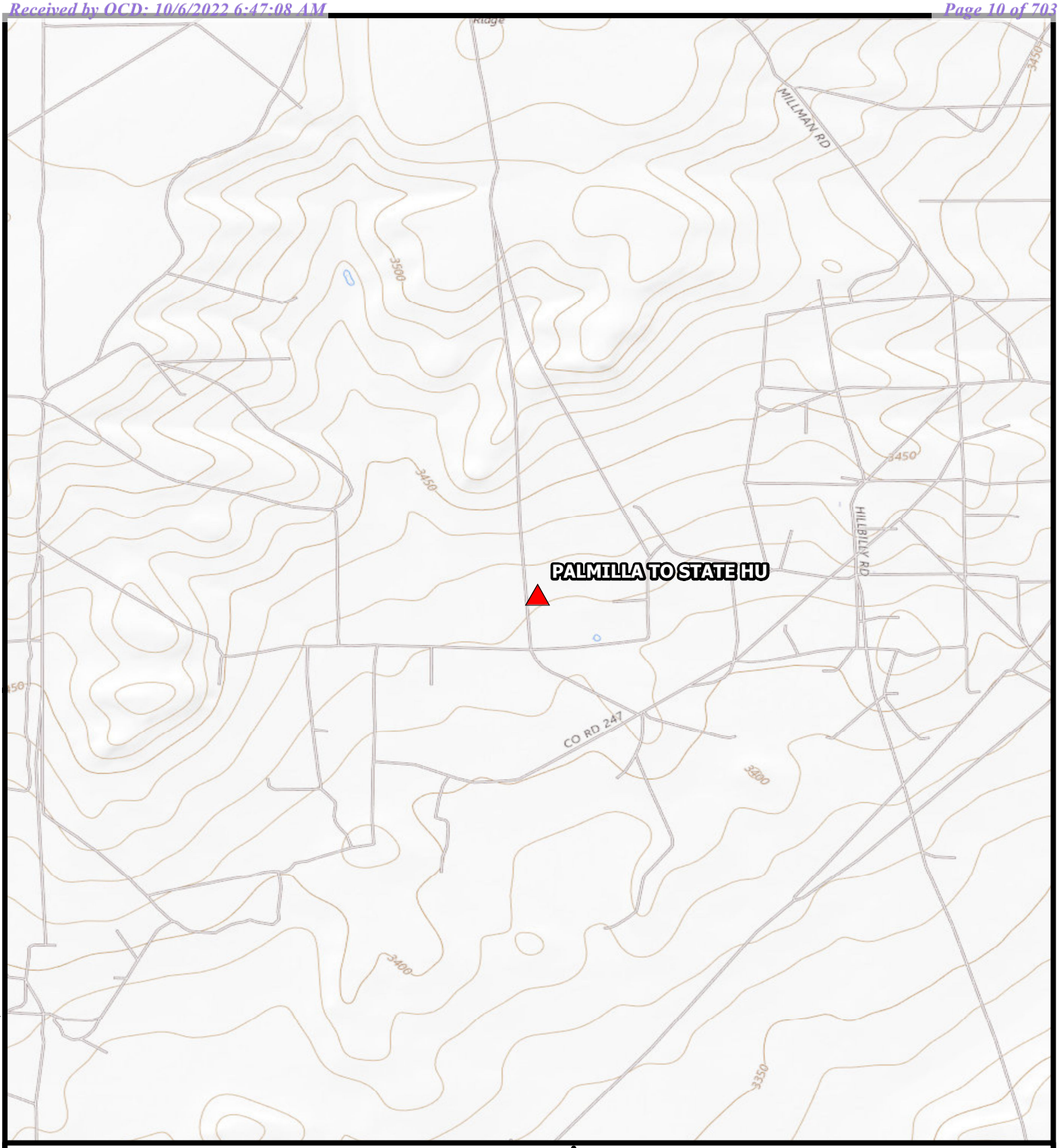
OVERVIEW MAP
PALMILLA TO STATE HU LINE
Property located at coordinates 32.650800°, -104.169921°
EDDY COUNTY, NEW MEXICO

SOLARIS WATER MIDSTREAM

Project #:
212C-MD-02473

FIGURE
1

Document Path: C:\Users\E.MORENOFLORES\Documents\Projects\Solaris\02473 - Palmilla\GIS\MXD\Overview 1.mxd



SITE LOCATION

N
W E
S

0 550 1,100 2,200

Approximate Scale in Feet

Service Layer Credits: USGS, The National Map, Topo Base, 2021.

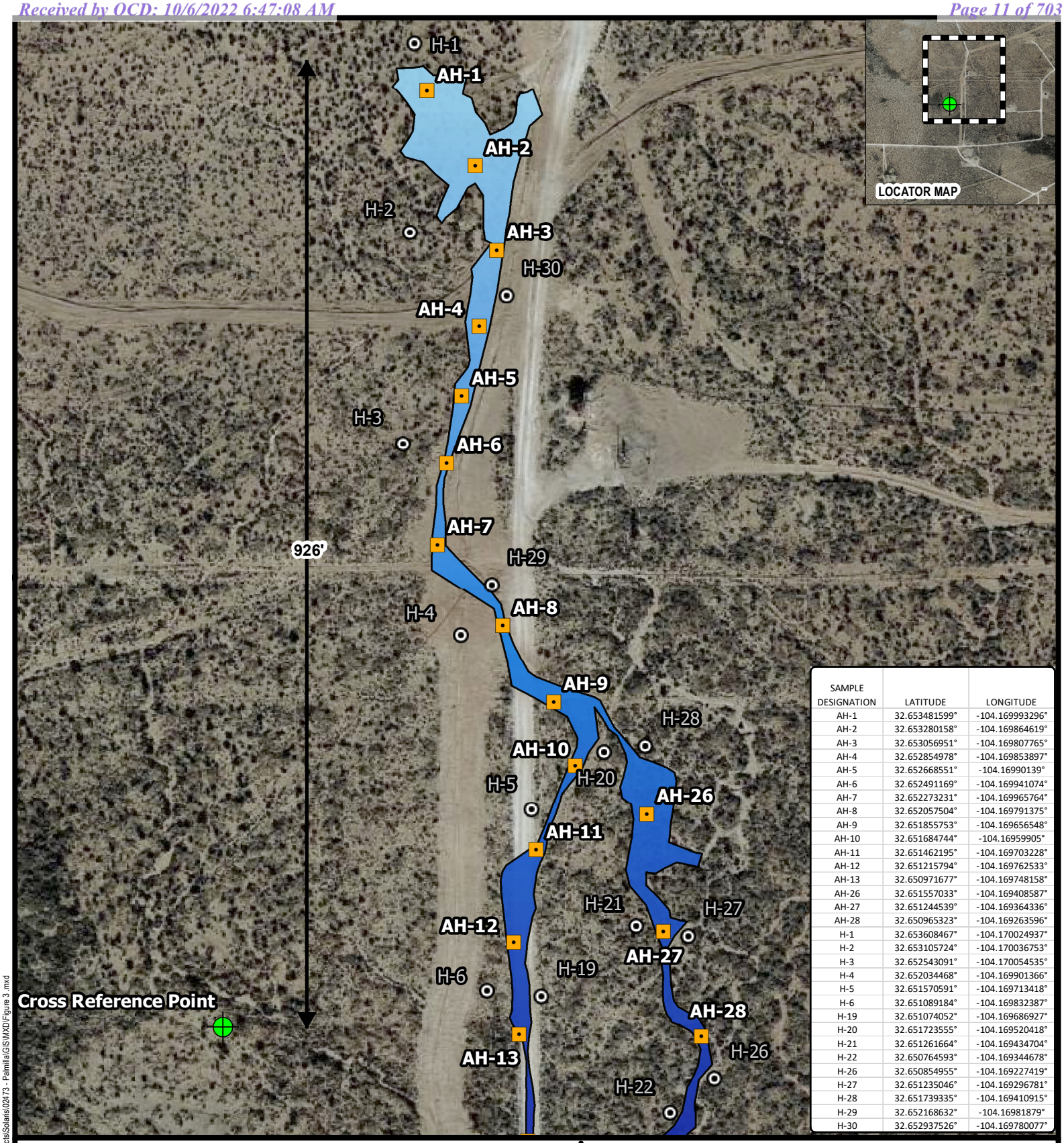
TOPOGRAPHIC MAP
PALMILLA TO STATE HU LINE
Property located at coordinates 31.650800°, -104.169921°
EDDY COUNTY, NEW MEXICO

SOLARIS WATER MIDSTREAM

Project #:
212C-MD-02473

FIGURE
2

Document Path: C:\Users\E.MORENOFLORES\Documents\Projects\Solaris\02473 - Palmilla\GIS\MXD\Topo.mxd



SAMPLE DESIGNATION	LATITUDE	LONGITUDE
AH-1	32.653481599°	-104.169993296°
AH-2	32.653280158°	-104.169864619°
AH-3	32.653056951°	-104.169807765°
AH-4	32.652854978°	-104.169853897°
AH-5	32.652668551°	-104.16990139°
AH-6	32.652491169°	-104.169941074°
AH-7	32.652273231°	-104.169965764°
AH-8	32.652057504°	-104.169791375°
AH-9	32.651855753°	-104.169656548°
AH-10	32.651684744°	-104.16959905°
AH-11	32.651462195°	-104.169703228°
AH-12	32.651215794°	-104.169762533°
AH-13	32.650971677°	-104.169748158°
AH-26	32.651557033°	-104.169408587°
AH-27	32.651244539°	-104.169364336°
AH-28	32.650965323°	-104.169263596°
H-1	32.653608467°	-104.170024937°
H-2	32.653105724°	-104.170036753°
H-3	32.652543091°	-104.170054535°
H-4	32.652034468°	-104.169901366°
H-5	32.651570591°	-104.169713418°
H-6	32.651089184°	-104.169832387°
H-19	32.651074052°	-104.169686927°
H-20	32.651723555°	-104.169520418°
H-21	32.651261664°	-104.169434704°
H-22	32.650764593°	-104.169344678°
H-26	32.650854955°	-104.169227419°
H-27	32.651235046°	-104.169296781°
H-28	32.651739335°	-104.169410915°
H-29	32.652168632°	-104.16981879°
H-30	32.652937526°	-104.169780077°

AUGERHOLE SAMPLE LOCATIONS

HORIZONTAL SAMPLE LOCATION

MAP CROSS REFERENCE POINT

IMPACTED AREA

N
W
E
S

0 80 160

Approximate Scale in Feet

Service Layer Credits: ESRI Basemap - Streets, 2021.

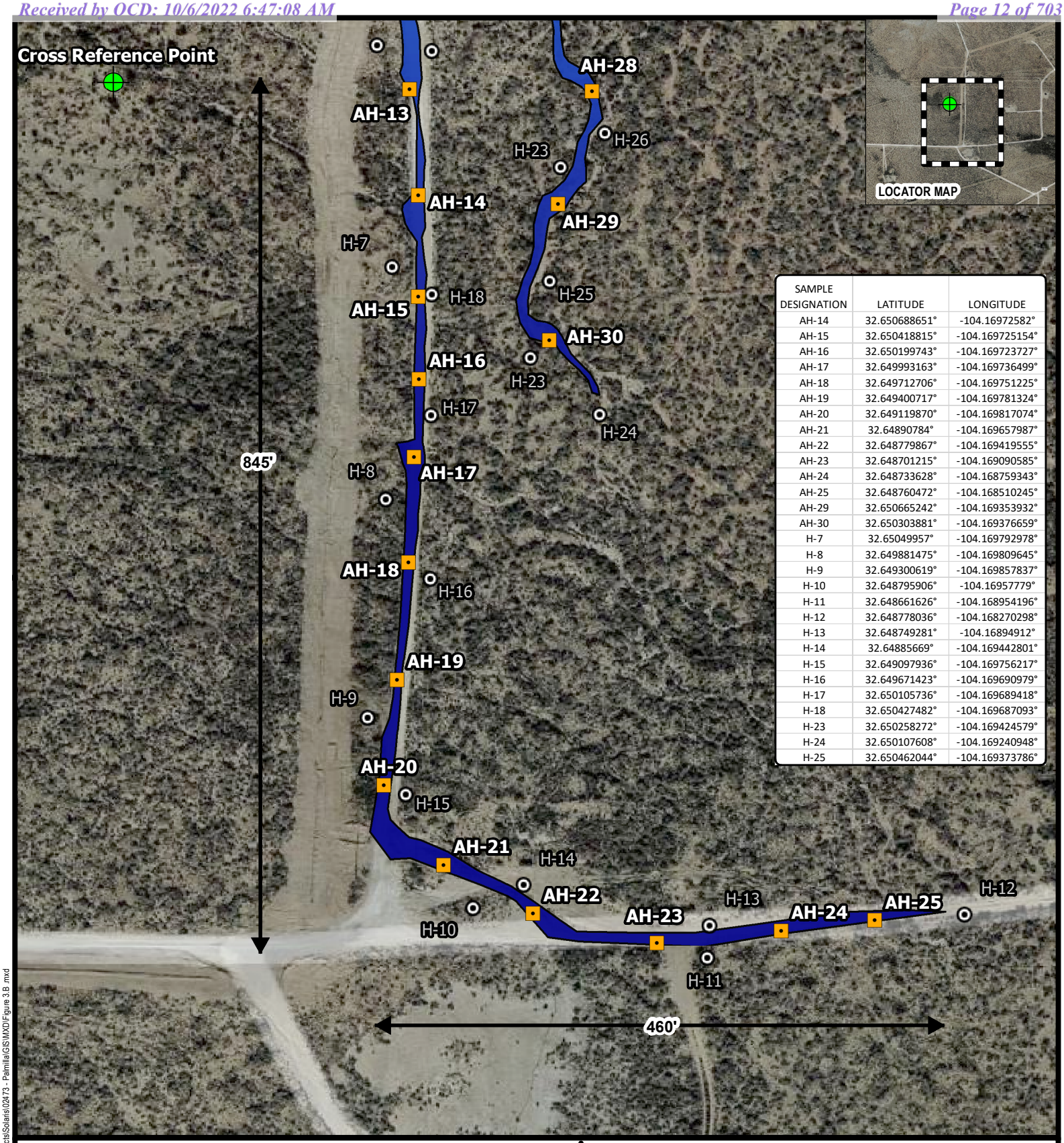
OVERVIEW MAP
PALMILLA TO STATE HU LINE
Property located at coordinates 32.650800°, -104.169921°
EDDY COUNTY, NEW MEXICO

SOLARIS WATER MIDSTREAM

Project #:
212C-MD-02473

FIGURE
3-A

Document Path: C:\Users\E.MORENO\FLORES\Documents\Projects\Solaris\02473 - Palmilla\GIS\MXD\Figure 3.mxd



SAMPLE DESIGNATION	LATITUDE	LONGITUDE
AH-14	32.650688651°	-104.16972582°
AH-15	32.650418815°	-104.169725154°
AH-16	32.650199743°	-104.169723727°
AH-17	32.649993163°	-104.169736499°
AH-18	32.649712706°	-104.169751225°
AH-19	32.649400717°	-104.169781324°
AH-20	32.649119870°	-104.169817074°
AH-21	32.64890784°	-104.169657987°
AH-22	32.648779867°	-104.169419555°
AH-23	32.648701215°	-104.169090585°
AH-24	32.648733628°	-104.168759343°
AH-25	32.648760472°	-104.168510245°
AH-29	32.650665242°	-104.169353932°
AH-30	32.650303881°	-104.169376659°
H-7	32.65049957°	-104.169792978°
H-8	32.649881475°	-104.169809645°
H-9	32.649300619°	-104.169857837°
H-10	32.648795906°	-104.16957779°
H-11	32.648661626°	-104.168954196°
H-12	32.648778036°	-104.168270298°
H-13	32.648749281°	-104.16894912°
H-14	32.64885669°	-104.169442801°
H-15	32.649097936°	-104.169756217°
H-16	32.649671423°	-104.169690979°
H-17	32.650105736°	-104.169689418°
H-18	32.650427482°	-104.169687093°
H-23	32.650258272°	-104.169424579°
H-24	32.650107608°	-104.169240948°
H-25	32.650462044°	-104.169373786°

AUGERHOLE SAMPLE LOCATIONS

HORIZONTAL SAMPLE LOCATION

MAP CROSS REFERENCE POINT

IMPACTED AREA

N W E S

0 80 160

Approximate Scale in Feet

Service Layer Credits: ESRI Basemap - Streets, 2021.

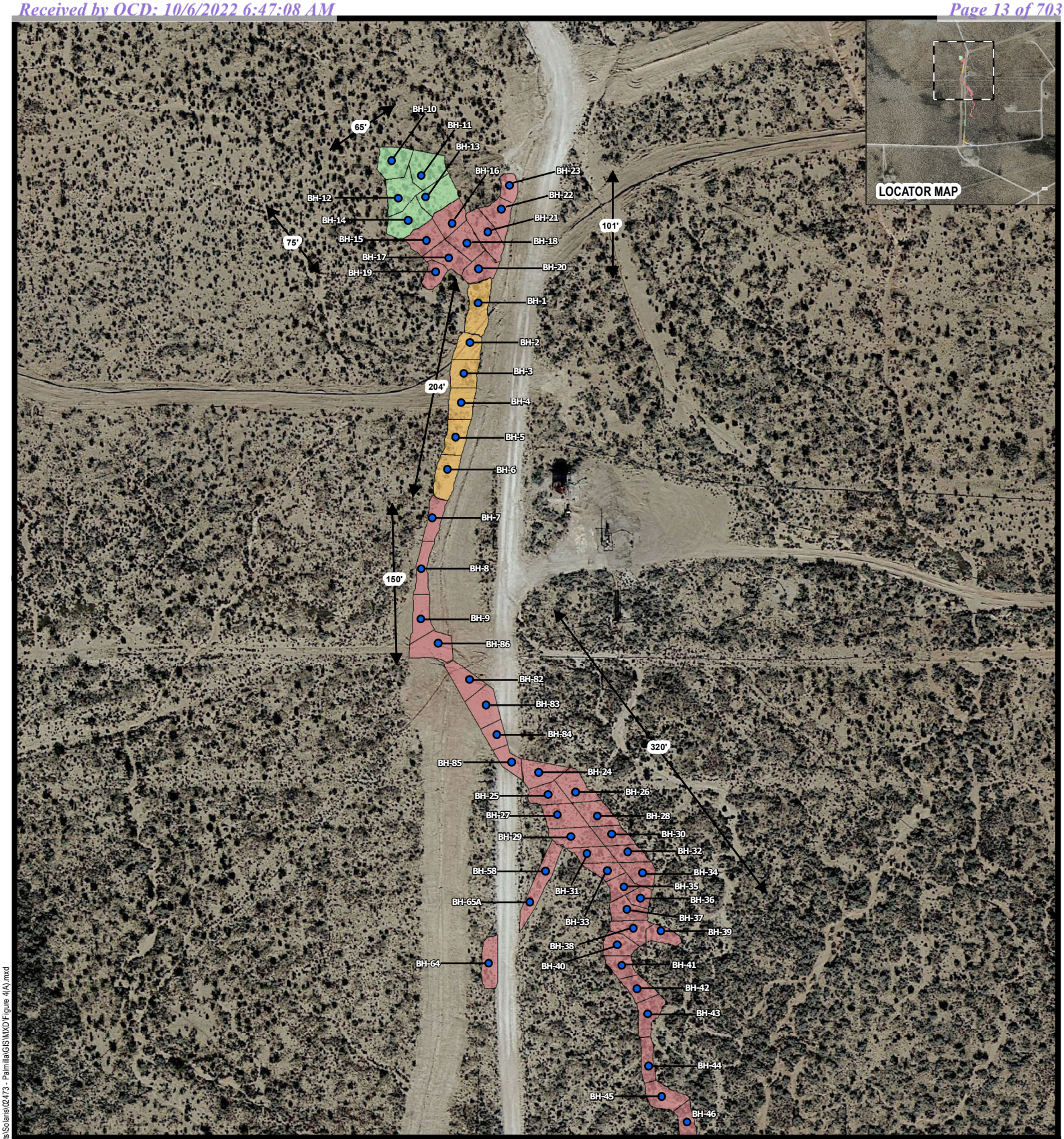
OVERVIEW MAP
PALMILLA TO STATE HU LINE
Property located at coordinates 32.650800°, -104.169921°
EDDY COUNTY, NEW MEXICO

SOLARIS WATER MIDSTREAM

Project #:
212C-MD-02473

FIGURE
3-B

Document Path: C:\Users\E.MORENO\FLORES\Documents\Projects\Solaris\02473 - Palmilla\GIS\MXD\Figure 3.B .mxd



SAMPLE LOCATIONS
1' EXCAVATION DEPTH
2' EXCAVATION DEPTH
4' EXCAVATION DEPTH
4.5' - 5' EXCAVATION DEPTH

N
W E
S

0 80 160
Approximate Scale in Feet

Service Layer Credits: ESRI Basemap - Streets, 2021.

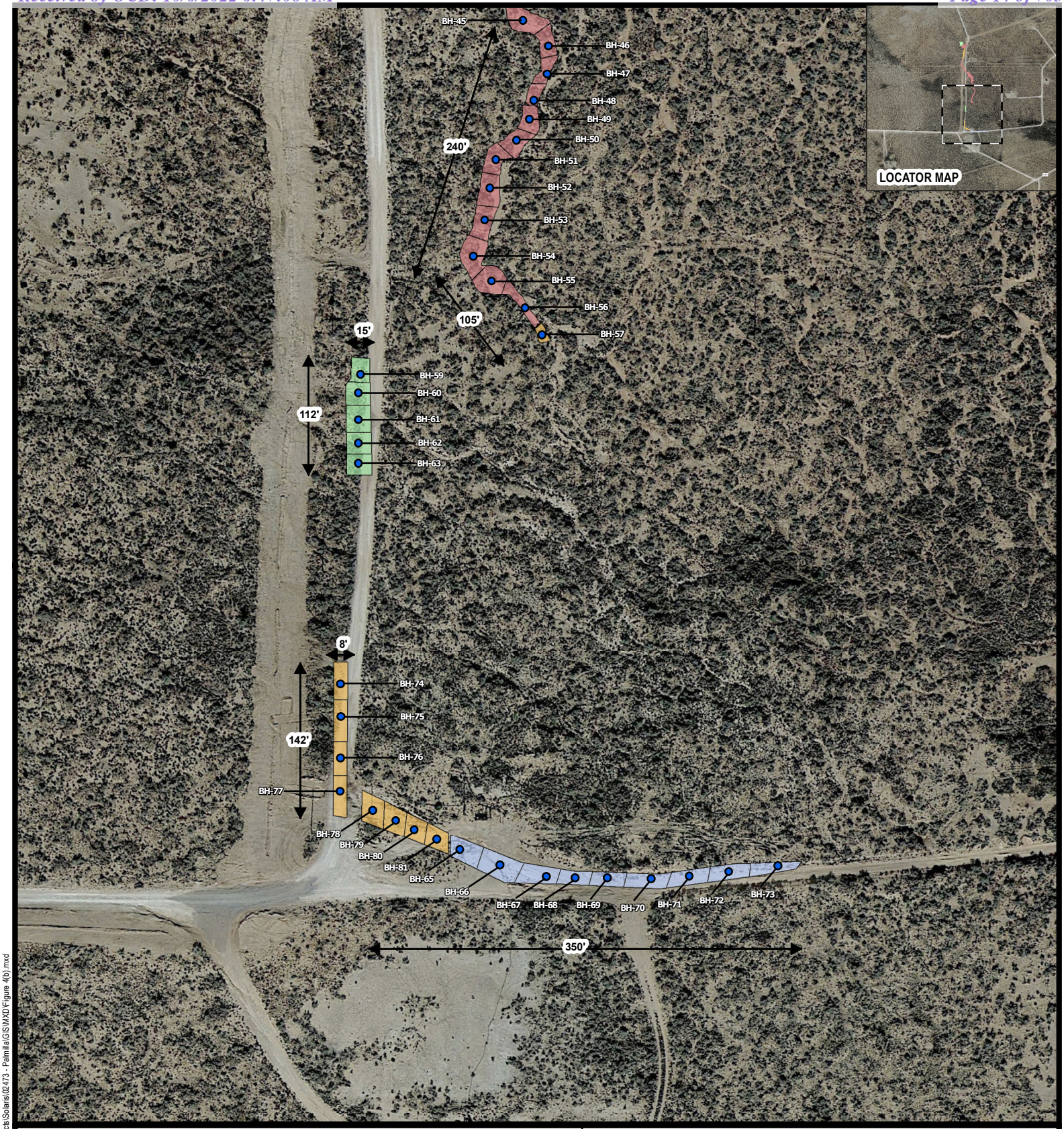
EXCAVATION AREA & DEPTH MAP
PALMILLA TO STATE HU LINE
Property located at coordinates 32.650800° N, -104.169921° W
EDDY COUNTY, NEW MEXICO

SOLARIS WATER MIDSTREAM

Project #:
212C-MD-02473

FIGURE
4-A

Document Path: C:\Users\E.MORENOFLORES\Documents\Projects\Solaris\02473 - Palmilla\GIS\MXD\Figure 4(A).mxd



SAMPLE LOCATIONS
1' EXCAVATION DEPTH
2' EXCAVATION DEPTH
4' EXCAVATION DEPTH
4.5' - 5' EXCAVATION DEPTH

N
W E
S

0 80 160
Approximate Scale in Feet

Service Layer Credits: Google Earth, 2021.

EXCAVATION AREA & DEPTH MAP
PALMILLA TO STATE HU LINE
Property located at coordinates 32.650800° N, -104.169921° W
EDDY COUNTY, NEW MEXICO

SOLARIS WATER MIDSTREAM

Project #:
212C-MD-02473

FIGURE
4-B

Document Path: C:\Users\E.MORENOFLORES\Documents\Projects\Solaris\02473 - Palmilla\GIS\MXD\Figure 4(b).mxd

TETRA TECH

Tables

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 1
Solaris Midstream
Palmilla to State HU Line
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	ORO	Total						
RRALs (Top 4.0' of Soil)									**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)						**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
AH-1	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**2,720**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	107
AH-2	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**6,110**
	"	1-1.5	-	X		61.3	<49.9	<49.9	61.3	0.00283	<0.00202	<0.00202	<0.00404	<0.00404	**9,170**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**12,200**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**8,110**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	**5,300**
AH-3	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**7,300**
	"	1-1.5	-	X		<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**9,060**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**5,880**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	425
AH-4	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**6,900**
AH-5	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**7,590**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**8,380**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**6,920**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	410
AH-6	4/9/2021	0-0.5	-	X		<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**7,750**
	"	1-1.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**8,230**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**8,470**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**9,620**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	**6,840**

Released to Imaging: 10/17/2022 12:02:07 PM
Received by OCD: 10/6/2022 6:47:08 AM

Table 1
Solaris Midstream
Palmilla to State HU Line
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	ORO	Total						
RRALs (Top 4.0' of Soil)									**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)						**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
AH-7	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**90,400**
	"	1-1.5	-	X		<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**10,400**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**1,240**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**2,400**
AH-8	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**8,310**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**11,300**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**10,400**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**6,240**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	**792**
AH-9	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**12,900**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**18,100**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**7,770**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**4,480**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	**2,900**
AH-10	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**9,230**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**13,200**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**5,800**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**3,950**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	**1,250**
AH-11	4/14/2021	0-0.5	-	X		<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**3,780**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**10,400**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**8,740**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**6,740**

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 1
Solaris Midstream
Palmilla to State HU Line
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	ORO	Total						
RRALs (Top 4.0' of Soil)									**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)						**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
AH-12	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	214
AH-13	4/9/2021	0-0.5	-	X											
AH-14	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	18.6
	"	1-1.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	16.0
AH-15	4/9/2021	0-0.5	-	X		60.6	<49.9	<49.9	60.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	32.7
	"	1-1.5	-	X		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	65.2
AH-16	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	58.8
AH-17	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**7,040**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**1,800**
AH-18	4/9/2021	0-0.5	-	X		<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.4
AH-19	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	89.7
AH-20	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**696**
	"	1-1.5	-	X		<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**6,960**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**2,450**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**891**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	506
AH-21	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**12,500**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**5,620**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**6,470**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**8,250**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	**5,950**

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 1
Solaris Midstream
Palmilla to State HU Line
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	ORO	Total						
RRALs (Top 4.0' of Soil)									**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)						**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
AH-22	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**7,370**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	292
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	204
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	154
AH-23	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**8,680**
AH-24	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**2,370**
	"	1-1.5	-	X		<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	340
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	266
AH-25	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	17.3
AH-26	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**6,930**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**7,870**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**7,780**
AH-27	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**4,110**
	"	1-1.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**5,180**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**6,880**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**9,710**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	**9,280**
AH-28	4/9/2021	0-0.5	-	X		<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**4,650**
	"	1-1.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**7,330**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**6,720**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**7,450**

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 1
Solaris Midstream
Palmilla to State HU Line
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	ORO	Total						
RRALs (Top 4.0' of Soil)									**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)						**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
AH-29	4/9/2021	0-0.5	-	X		**202**	<50.0	**75.5**	**278**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**9,140**
	"	1-1.5	-	X		**103**	**50.7**	<50.0	**154**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**7,000**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**6,500**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**2,210**
AH-30	4/9/2021	0-0.5	-	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**2,970**
	"	1-1.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**8,750**
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	-	**6,120**
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	-	**6,310**
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	-	**6,660**
H-1	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	92.1
H-2	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.06
H-3	4/9/2021	0-0.5	-	X		<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	8.13
H-4	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	108
H-5	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	242
H-6	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	12.9
H-7	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	32.4
H-8	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	12.0
H-9	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	29.3
H-10	4/9/2021	0-0.5	-	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	14.6
H-11	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	20.4
H-12	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	66.5
H-13	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	27.7
H-14	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	13.9

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 1
Solaris Midstream
Palmilla to State HU Line
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	ORO	Total						
RRALs (Top 4.0' of Soil)									**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)						**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
H-15	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	36.6
H-16	4/9/2021	0-0.5	-	X		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6.05
H-17	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	87.8
H-18	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.5
H-19	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	24.2
H-20	4/9/2021	0-0.5	-	X		<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	8.45
H-21	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	12.4
H-22	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	0.00222	0.00382	<0.00202	<0.00403	0.00604	5.84
H-23	4/9/2021	0-0.5	-	X		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	12.9
H-24	4/9/2021	0-0.5	-	X		<49.9	<49.9	<49.9	<49.9	0.00379	0.00456	0.00218	<0.00402	0.0105	12.3
H-25	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	10.7
H-26	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5.68
H-27	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	13.6
H-28	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.98
H-29	4/9/2021	0-0.5	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	40.4
H-30	4/9/2021	0-0.5	-	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	24.8

NOTES

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

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

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

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

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Remediated

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 2
Solaris Water Midstream
Palmilla to State HU Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs (Top 4.0' of Soil)								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)					**1,000**	**mg/kg**		**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
BH-1	6/17/2022	4.0	X	-	40.2	<15.0	<15.0	40.2	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	13.4
BH-2	6/17/2022	4.0	X	-	39.3	<15.0	<15.0	39.3	<0.000383	0.000535	<0.000562	<0.00100	<0.00100	33.2
BH-3	6/17/2022	4.0	X	-	40.9	15	<14.9	55.9	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	24.9
BH-4	6/17/2022	4.0	X	-	23	<14.9	<14.9	23	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	35.6
BH-5	6/17/2022	4.0	X	-	26.9	48.2	<15.0	75.1	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	11.6
BH-6	6/17/2022	4.0	X	-	28.2	<15.0	<15.0	28.2	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	19.1
BH-7	6/17/2022	5.0	X	-	24.1	<15.0	<15.0	24.1	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	20.5
BH-8	6/17/2022	5.0	X	-	23.6	<15.0	<15.0	23.6	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	19.7
BH-9	6/17/2022	5.0	X	-	27.5	<15.0	<15.0	27.5	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	14.3
BH-10	6/16/2022	2.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	13.9
BH-11	6/16/2022	2.0	X	-	<14.9	20.6	<14.9	20.6	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	53.1
BH-12	6/16/2022	2.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	15.1
BH-13	6/16/2022	2.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	6.57
BH-14	6/16/2022	2.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	21.4
BH-15	6/16/2022	5.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	62.4
BH-16	6/16/2022	5.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	12.4
BH-17	6/16/2022	5.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	12.8
BH-18	6/16/2022	5.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	40.1
BH-19	6/16/2022	5.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	39.6
BH-20	6/16/2022	5.0	X	-	<15.0	<15.0	<15.0	<15.0	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	50.6
BH-21	6/21/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	880
BH-22	6/21/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	349
BH-23	6/21/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	209

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 2
Solaris Water Midstream
Palmilla to State HU Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs (Top 4.0' of Soil)								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)					**1,000**	**mg/kg**		**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
BH-24	6/30/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	300
BH-25	6/30/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	333
BH-26	6/30/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	411
BH-27	6/30/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	827
BH-28	6/30/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	384
BH-29	6/29/2022	5.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	987
BH-30	6/29/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	770
BH-31	6/29/2022	5.0	X	-	76.6	<49.8	<49.8	76.6	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	766
BH-32	6/29/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	402
BH-33	6/29/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	397
BH-34	6/29/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,030
BH-35	6/29/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	356
BH-36	6/29/2022	5.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	452
BH-37	6/29/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	444
BH-38	6/29/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	513
BH-39	6/29/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	675
BH-40	6/29/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	624
BH-41	06/30/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	443
BH-42	06/30/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	736
BH-43	06/30/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	820
BH-44	06/30/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	666
BH-45	06/30/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	647
BH-46	06/30/2022	5.0	X	-	76.5	<50.0	<50.0	76.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	619
BH-47	06/30/2022	5.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	766
BH-48	06/30/2022	5.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	429

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 2
Solaris Water Midstream
Palmilla to State HU Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs (Top 4.0' of Soil)								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)					**1,000**	**mg/kg**		**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
BH-49	07/21/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	11.2
BH-50	07/21/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	181
BH-51	07/21/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	39.2
BH-52	07/21/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	80.3
BH-53	07/21/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	201
BH-54	07/21/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	204
BH-55	07/21/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	15.1
BH-56	07/21/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	181
BH-57	07/19/2022	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	163
BH-58	07/15/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	185
BH-59	07/13/2022	2.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	246
BH-60	07/13/2022	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	291
BH-61	07/13/2022	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	347
BH-62	07/13/2022	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	337
BH-63	07/13/2022	2.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	310
BH-64	07/15/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	249
BH-65A	07/15/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	83.0
BH-65	07/19/2022	1.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.4
BH-66	07/19/2022	1.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	23.5
BH-67	07/19/2022	1.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.4
BH-68	07/19/2022	1.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	11.0
BH-69	07/19/2022	1.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	10.4
BH-70	07/19/2022	1.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	9.66
BH-71	07/19/2022	1.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
BH-72	07/19/2022	1.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	13.0

Released to Imaging: 10/17/2022 12:02:07 PM
Received by OCD: 10/6/2022 6:47:08 AM

Table 2
Solaris Water Midstream
Palmilla to State HU Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs (Top 4.0' of Soil)								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)					**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
BH-73	07/19/2022	1.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6.71
BH-74	07/20/2022	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.28
BH-75	07/20/2022	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	17.6
BH-76	07/20/2022	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	0.00263	<0.00398	<0.00398	11.7
BH-77	07/20/2022	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.96
BH-78	07/20/2022	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	57.4
BH-79	07/20/2022	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	69.6
BH-80	07/20/2022	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	208
BH-81	07/20/2022	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	178
BH-82	07/22/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	276
BH-83	07/22/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	279
BH-84	07/22/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,120
BH-85	07/22/2022	5.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	647
BH-86	07/22/2022	5.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	464
SW-1	06/17/2022	-	X	-	23.1	<15.0	<15.0	23.1	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	7.70
SW-2	06/17/2022	-	X	-	22.0	<14.9	<14.9	22.0	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	34.9
SW-3	06/17/2022	-	X	-	25.5	<15.0	<15.0	25.5	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	5.79
SW-4	06/17/2022	-	X	-	34.0	<15.0	<15.0	34.0	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	7.56
SW-5	06/16/2022	-	X	-	<15.0	<15.0	<15.0	<15.0	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	9.08
SW-6	06/16/2022	-	X	-	<15.0	<15.0	<15.0	<15.0	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	10.4
SW-7	06/16/2022	-	X	-	<15.0	<15.0	<15.0	<15.0	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	5.23
SW-8	06/16/2022	-	X	-	<14.9	<14.9	<14.9	<14.9	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	10.6
SW-9	06/16/2022	-	X	-	<15.0	<15.0	<15.0	<15.0	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	10.3
SW-10	06/16/2022	-	X	-	<15.0	<15.0	<15.0	<15.0	<0.000387	0.000907	<0.000568	0.00183	0.00274	7.15
SW-11	06/16/2022	-	X	-	<14.9	<14.9	<14.9	<14.9	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	20.5

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 2
Solaris Water Midstream
Palmilla to State HU Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs (Top 4.0' of Soil)								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)					**1,000**	**mg/kg**		**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
SW-12	06/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	90.1
SW-13	06/21/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	263
SW-14	06/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	154
SW-15	06/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.2
SW-16	06/30/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	41.4
SW-17	06/30/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	48.5
SW-18	06/30/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	40.8
SW-19	06/30/2022	-	X	-	63.3	<50.0	<50.0	63.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	49.4
SW-20	06/30/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	38.6
SW-21	06/30/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	38.9
SW-22	06/29/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	40.0
SW-23	06/29/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	10.8
SW-24	06/29/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.96
SW-25	06/29/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	17.8
SW-26	06/29/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<4.97
SW-27	06/29/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	5.35
SW-28	06/30/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<4.96
SW-29	06/30/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	18.5
SW-30	06/30/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.00
SW-31	06/30/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	12.8
SW-32	06/30/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	9.12
SW-33	06/30/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	12.5
SW-34	06/30/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	13.1
SW-35	06/30/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	34.5
SW-36	06/30/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	13.8

Released to Imaging: 10/17/2022 12:02:07 PM
Received by OCD: 10/6/2022 6:47:08 AM

Table 2
Solaris Water Midstream
Palmilla to State HU Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs (Top 4.0' of Soil)								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)					**1,000**	**mg/kg**		**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
SW-37	06/30/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.95
SW-38	06/30/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	7.84
SW-39	06/30/2022	-	X	-	83.0	<49.9	<49.9	83.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.49
SW-40	06/30/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.05
SW-41	06/30/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	9.25
SW-42	06/30/2022	-	X	-	74.3	<49.9	<49.9	74.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	34.9
SW-43	07/01/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	75.4
SW-44	07/01/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	73.8
SW-45	07/01/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	130
SW-46	07/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.4
SW-47	07/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	35.4
SW-48	07/21/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	183
SW-49	07/21/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	227
SW-50	07/21/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	170
SW-51	07/21/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	341
SW-52	07/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.5
SW-53	07/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	220
SW-54	07/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	160
SW-55	07/21/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	46.8
SW-56	07/21/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	10.8
SW-57	07/14/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	132
SW-58	07/14/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	84.0
SW-59	07/14/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	24.7
SW-60	07/14/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.9
SW-61	07/14/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	15.4

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 2
Solaris Water Midstream
Palmilla to State HU Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs (Top 4.0' of Soil)								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)					**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
SW-62	07/14/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	12.9
SW-63	07/14/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.8
SW-64	07/14/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	13.6
SW-65	07/14/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	30.3
SW-66	07/13/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	334
SW-67	07/13/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	126
SW-68	07/13/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	33.6
SW-69	07/13/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	36.2
SW-70	07/15/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	245
SW-71	07/15/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	77.4
SW-72	07/15/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	115
SW-73	07/15/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	76.1
SW-74	07/15/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	68.4
SW-75	07/19/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	81.2
SW-76	07/19/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	101
SW-77	07/19/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.9
SW-78	07/19/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	60.1
SW-79	07/19/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	81.4
SW-80	07/19/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	86.5
SW-81	07/20/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.3
SW-82	07/20/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	357
SW-83	07/20/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	569
SW-84	07/20/2022	-	X	-	<50.0	68.7	<50.0	68.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	20.7
SW-85	07/20/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11.5
SW-86	07/20/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	5.72

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM

Table 2
Solaris Water Midstream
Palmilla to State HU Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs (Top 4.0' of Soil)								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)					**1,000**	**mg/kg**		**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**
SW-87	07/20/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	56.2
SW-88	07/20/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	26.0
SW-89	07/20/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	24.6
SW-90	07/20/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	49.9
SW-91	07/20/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	40.8
SW-92	07/20/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	45.4
SW-93	07/20/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	135
SW-94	07/22/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	109
SW-95	07/22/2022	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	248
SW-96	07/22/2022	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	230
SW-97	07/22/2022	-	-	X	<49.8	**2240**	**325**	**2570**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	251
	8/5/2022	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-98	07/22/2022	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	202
SW-99	07/22/2022	-	-	X	<49.9	**950**	**125**	**1080**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	193
	8/5/2022	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-100	07/22/2022	-	-	X	<49.9	**663**	82.4	**745**	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	258
	8/5/2022	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-101	07/22/2022	-	-	X	<49.9	**870**	**114**	**984**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	249
	8/5/2022	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
SW-102	8/5/2022	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288

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

TETRA TECH

Photographic Documentation

Solaris Water Midstream
Palmilla to State HU Line
Eddy County, New Mexico



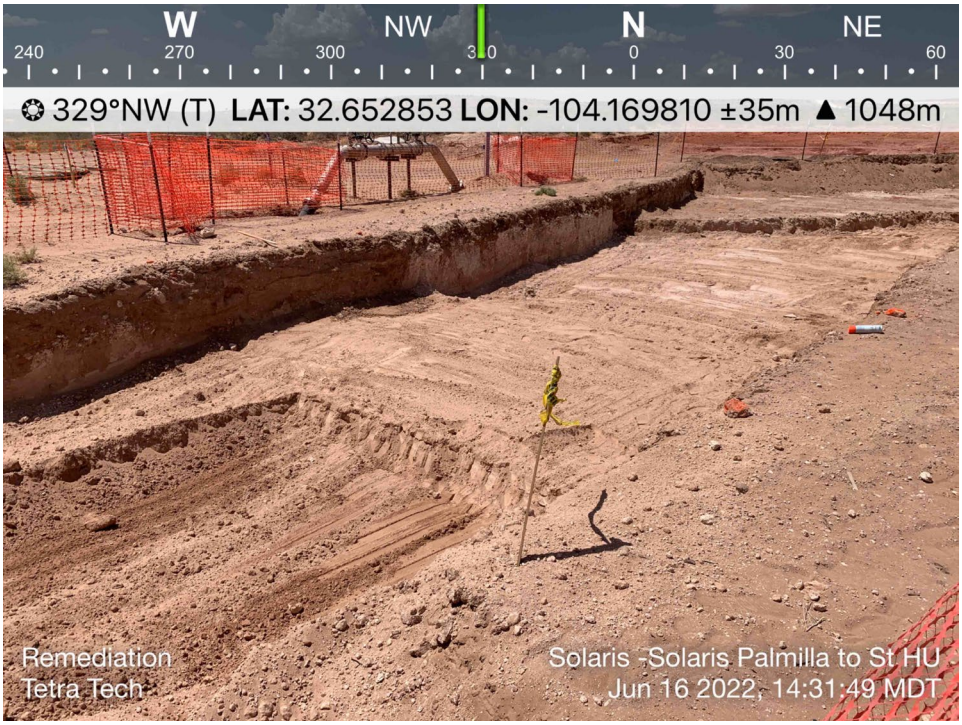
View of Remediation Activities – View North



View of Remediation Activities – View Northwest

Solaris Water Midstream
Palmilla to State HU Line
Eddy County, New Mexico

TETRA TECH



View of Remediation Activities – View Northwest



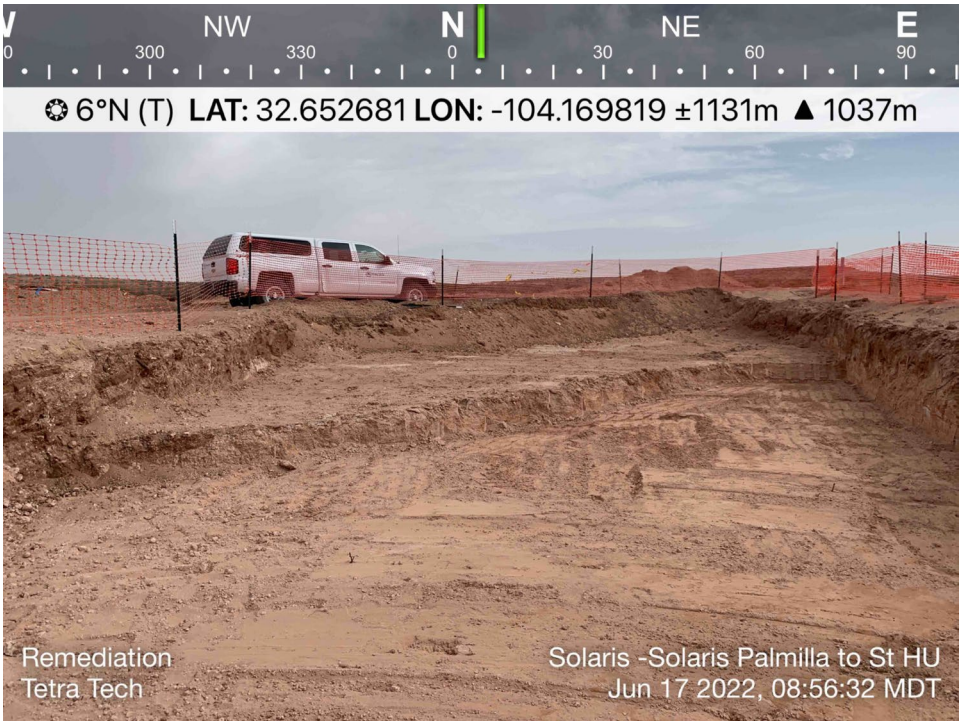
View of Remediation Activities – View Southwest

Solaris Water Midstream
Palmilla to State HU Line
Eddy County, New Mexico

TETRA TECH

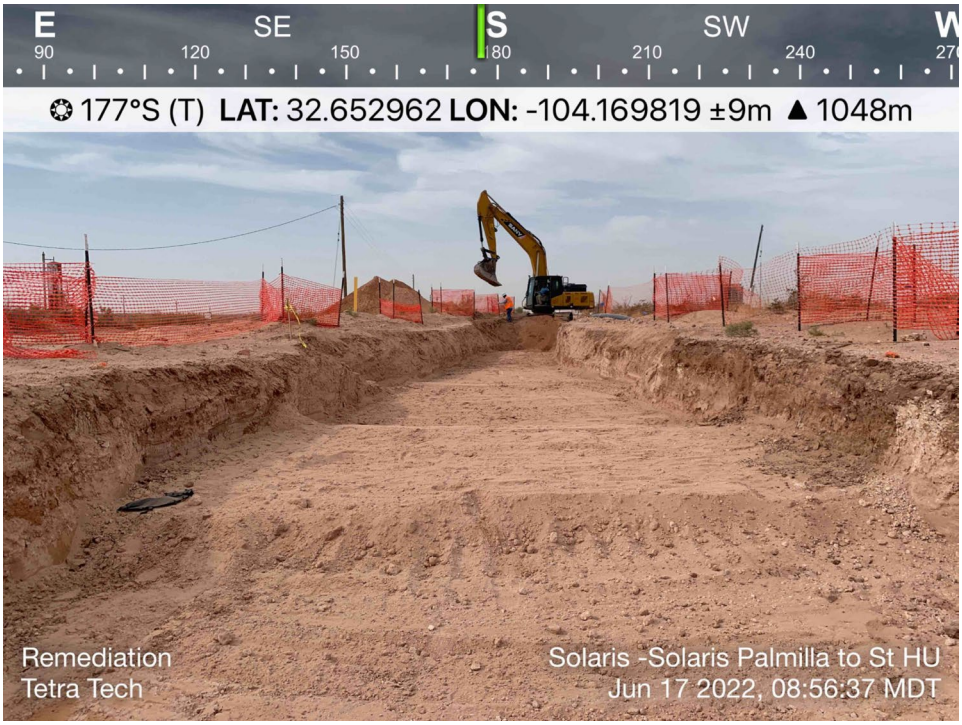


View of Remediation Activities – View South



View of Remediation Activities – View North

Solaris Water Midstream
Palmilla to State HU Line
Eddy County, New Mexico



View of Remediation Activities – View South



View of Remediation Activities – View North

Solaris Water Midstream
Palmilla to State HU Line
Eddy County, New Mexico

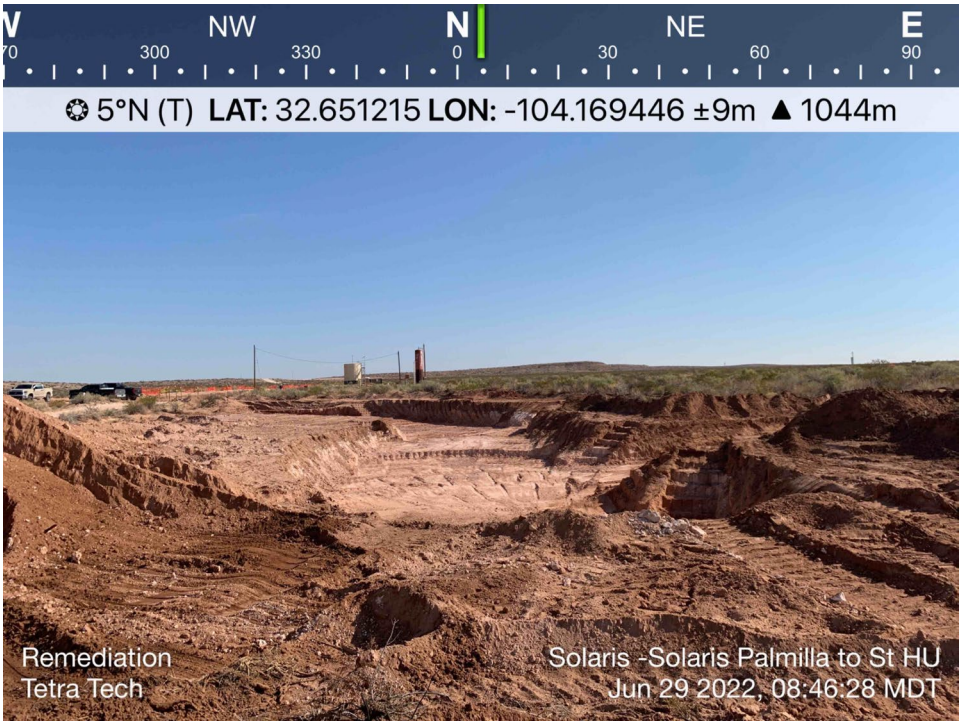


View of Remediation Activities – View Northwest



View of Remediation Activities – View South

Solaris Water Midstream
Palmilla to State HU Line
Eddy County, New Mexico

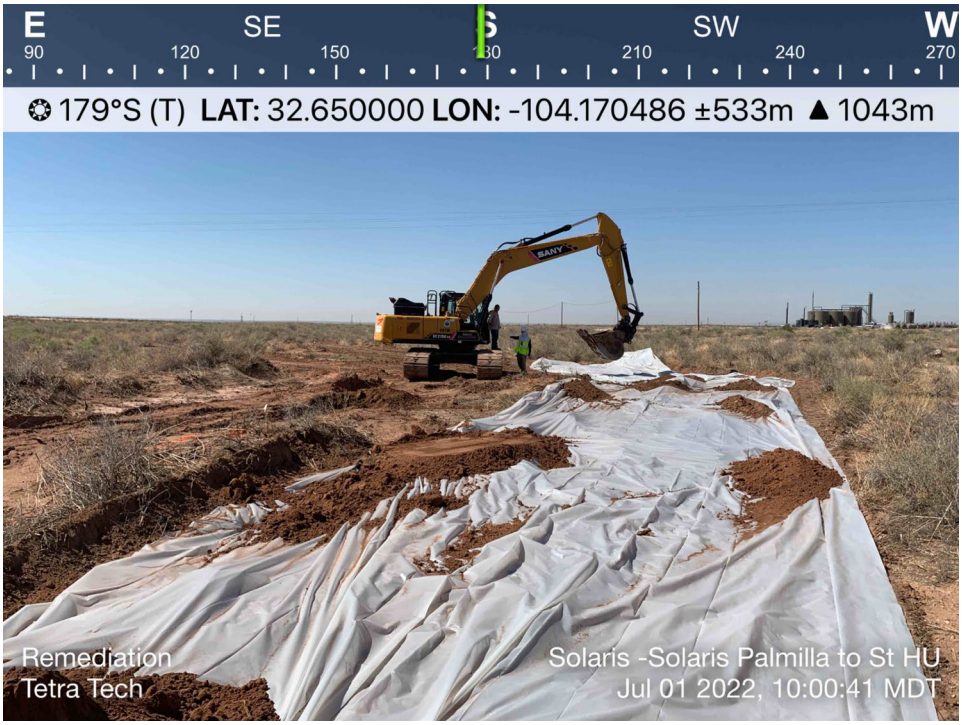


View of Remediation Activities – View North

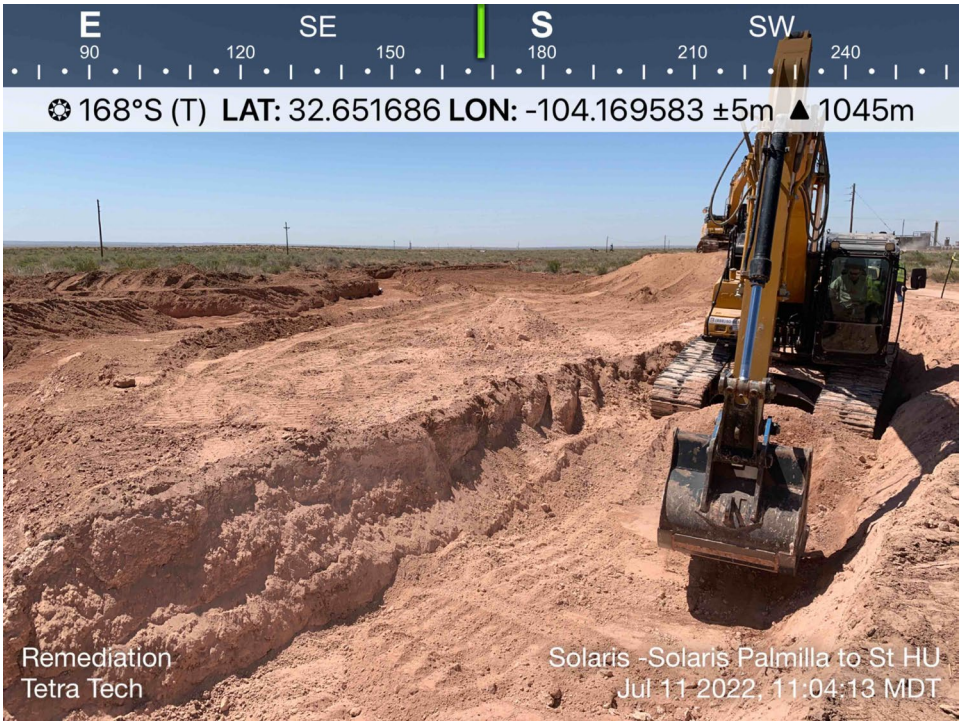


View of Remediation Activities – View Northwest

Solaris Water Midstream
Palmilla to State HU Line
Eddy County, New Mexico



View of Remediation Activities – View South



View of Remediation Activities – View South

TETRA TECH

Appendix A

C-141 Document

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NAPP2108248771
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Solaris Water	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 432-203-9020 C 469-978-5620
Contact email rob.kirk@solariswater.com	Incident # *(assigned by OCD)*
Contact mailing address 907 Tradewinds Blvd, Ste B, Midland, TX 79706	

Location of Release Source

Latitude 32.65298 Longitude -104.16948
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Palmilla to State HU Line	Site Type Pipeline
Date Release Discovered 03/22/21	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	22	19 S	28 E	Eddy

Surface Owner: ☑ State ☐ Federal ☐ Tribal ☐ Private (*Name:* NM State Land)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☑ Produced Water	Volume Released (bbls) 125	Volume Recovered (bbls) 50
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☑ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

During the construction of the permanent poly pipeline, a temporary lay-flat hose that was being used as a bypass failed causing the release. Pump pressure alarms successfully alerted operators and the line was shut stopping the release. The hose was taken out of service.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2108248771
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? Calculations of volumes, the size of the pipeline/lay-flat hose, the amount of time to close the line, and the area impacted.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
This completed Form C-141was uploaded to the NMOCD web portal on 03/23/21 by Rob Kirk.

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:

Remaining free liquids have absorbed into the soil.

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: Rob Kirk
Title: VP & GM HSE & Compliance
Signature: RR Kirk
Date: 03/23/21
email: rob.kirk@solariswater.com
Telephone: O 432-203-9020 C 469-978-5620

OCD Only

Received by: Ramona Marcus
Date: 4/16/2021

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

TETRA TECH

Appendix B

Site Characterization Documents

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1	none	CP-1896

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Solaris Water	469-978-5620

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
3305 Boyd Drive	Carlsbad	NM	88220

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	39	10.7	N
	LONGITUDE	104	10	10.1	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Well located at NW/4 NW/4 Section 22, T19S, R28E, NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 1690	Jason Maley	Vision Resources, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1/10/22	1/10/22	no well constructed	115	dry hole,

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): no water measured 72-hours later

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	115	6.25	no casing, or annular material installed				

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	115	6.25	no casing or annular material installed		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 10/6/2022 6:47:08 AM

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Topsoil, brown, 90% silty sand, 10% 1/4 to 1/2" gravels,	Y ✓N	
10	20	10	Sand, dark brown	Y ✓N	
20	40	20	80% Gypsum, white, hard, 20% 1/8 to 1/4" gravels	Y ✓N	
40	115	75	100% sand, fine, brown	Y ✓N	
			Note: borehole left open 72-hours, then checked and no water detected.	Y ✓N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☑ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY: Hole dry no water

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Boring drilled to evaluate the absence or presence of groundwater within the upper 105-ft. No water was found. Boring started and total depth reached on 1/10/22. The boring was plugged 1/14/2022.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Fine

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Released to Imaging: 10/17/2022 12:02:07 PM

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324022104105701

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

USGS 324022104105701 19S.28E.09.32322

Eddy County, New Mexico
Latitude 32°40'23.4", Longitude 104°11'01.7" NAD83
Land-surface elevation 3,544 feet above NAVD88
The depth of the well is 365.00 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1986-06-04		D	62610		3295.47	NGVD29		S			A
1986-06-04		D	62611		3297.03	NAVD88		S			A
1986-06-04		D	72019	246.97				S			A
1994-03-09		D	62610		3295.74	NGVD29	3	S			A
1994-03-09		D	62611		3297.30	NAVD88	3	S			A
1994-03-09		D	72019	246.70			3	S			A
1999-02-19		D	62610		3296.06	NGVD29	1	S	USGS	S	A
1999-02-19		D	62611		3297.62	NAVD88	1	S	USGS	S	A
1999-02-19		D	72019	246.38			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status		The reported water-level measurement represents a static level
Status	1	Static

Section	Code	Description
Status	3	Above
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-05-04 18:25:00 EDT
0.42 0.37 nadww01

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	CP 00361 POD1	3	1	3	09	19S	28E	576094	3615246*

Driller License:		**Driller Company:**			
Driller Name:	LOWE DRILLING CO.				
Drill Start Date:	04/19/1971	**Drill Finish Date:**	05/13/1966	**Plug Date:**	
Log File Date:	05/25/1971	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	8.63	**Depth Well:**	365 feet	**Depth Water:**	265 feet

Water Bearing Stratifications:	Top	Bottom	Description
	265	365	Sandstone/Gravel/Conglomerate

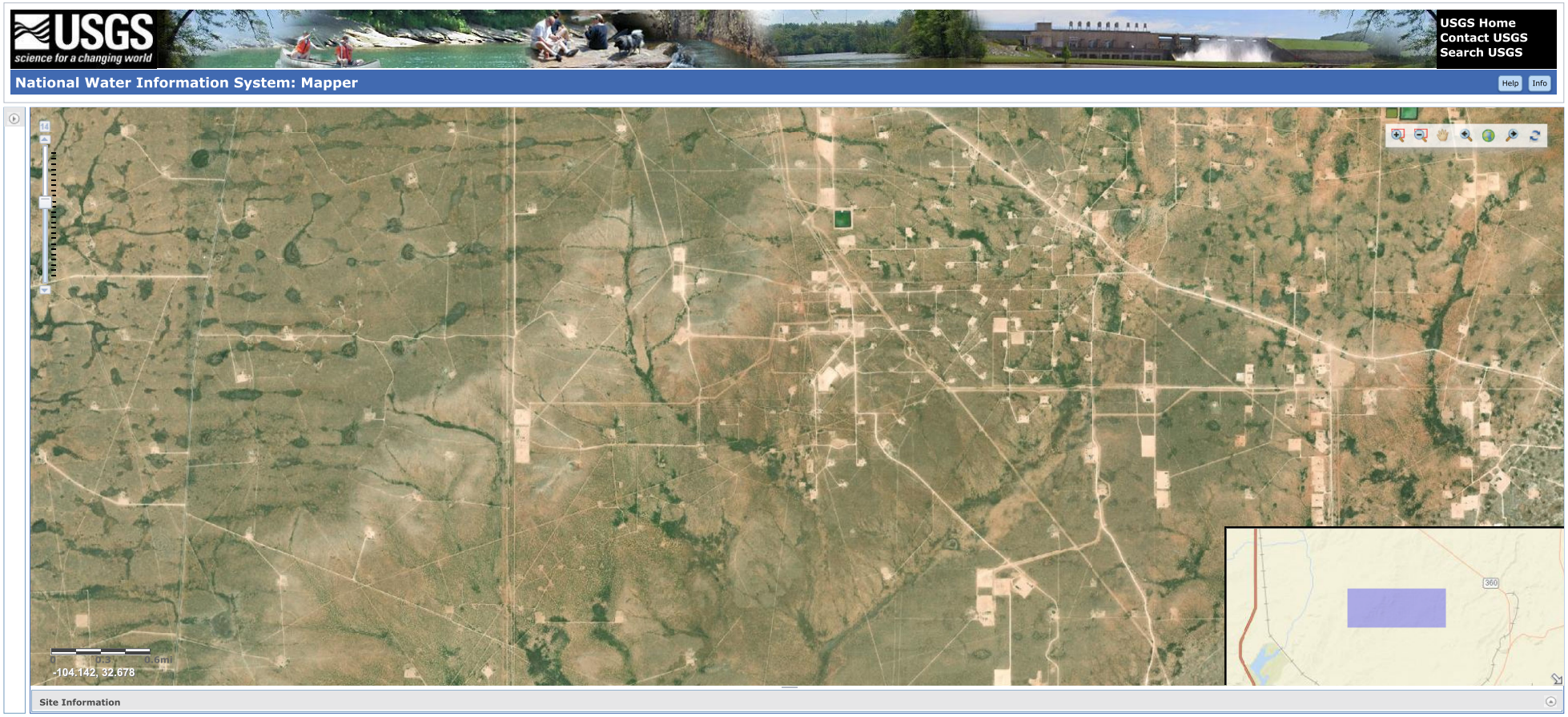
Casing Perforations:	Top	Bottom
	288	348

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

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

Released to Imaging: 10/17/2022 12:02:07 PM

Received by OCD: 10/6/2022 6:47:08 AM



Page 50 of 703

New Mexico NFHL Data



May 4, 2021

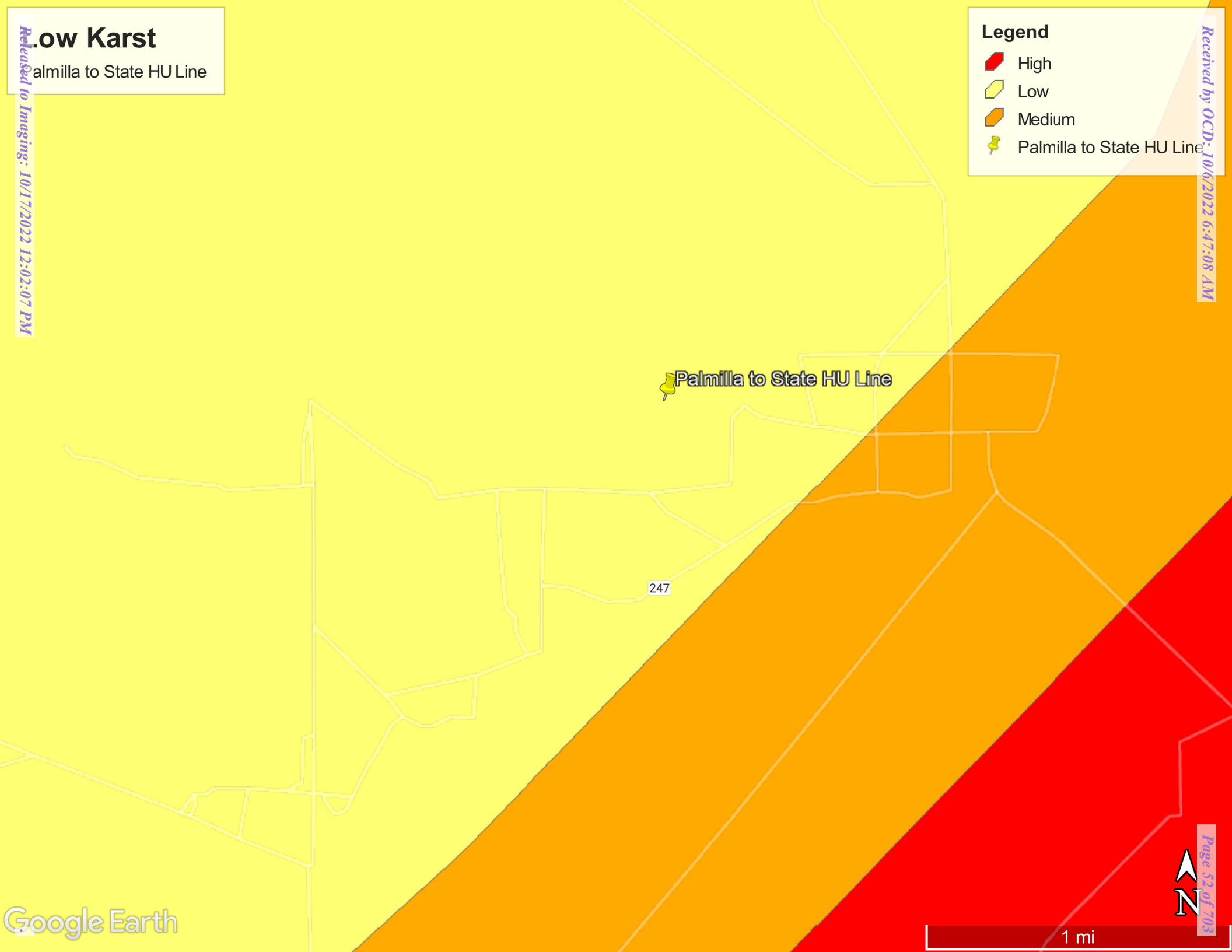
1:9,028

0 0.075 0.15 0.3 mi

0 0.1 0.2 0.4 km

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

nmflood.org is made possible through a collaboration with NMDHSEM, EDAC, and FEMA
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.



Released to Imaging: 10/17/2022 12:02:07 PM
Received by OCD: 10/6/2022 6:47:08 AM

Water Well Data
Average Depth to Groundwater (ft)
Solaris Water Midstream, LLC
Palmilla to State HU Line
Eddy County, New Mexico

18 South 27 East

6	5	4	3	2	1
7	8	9	10 50	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28 100	27	26	25
31 65	32	33 145	34	35	36

18 South 28 East

6	5	4 108	3	2 55	1
7 49	8 81 69	9	10	11	12
18	17	16	15 80	14	13
19	20	21 226	22	23	24
30 137	29	28	27	26	25
31	32	33	34	35 65	36

18 South 29 East

6	5	4	3	2	1
7	8	9	10 95	11	12
18	17	16	15	14	13
19	20	21	22	23	24 158
30	29	28	27	26	25
31	32	33	34	35	36

19 South 27 East

6	5 20	4	3	2	1
7	8 50	9	10	11	12
18	17	16 18	15	1482.4 107.7	13 60.7
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

19 South 28 East

6	5	4	3	2	1
7	8	9 246 265	10	11	12
18 91	17	16	15	14	13
19	20	21	22 Site	23	24
30	29	28	27	26	25
31	32	33	34	35	36 75

19 South 29 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 123 101
19	20 62.9	21	22	23	24
30	29	28	27	26	25
31	32	33	34 62' 60	35 121 110	36 115

20 South 27 East

6	5 50	4	3	2	1
7 66	8	9	10	11	12
18	17	16	15	14 66 74	13
19	20	21 150	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

20 South 28 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28 30	27 35	26	25
31 115	32	33 25 29	34	35	36 19

20 South 29 East

6	5	4	3 91	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20 62	21	22	23	24
30 52	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

TETRA TECH

Appendix C

Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Job Number: 880-1331-1

SDG Number: Eddy County, NM

Job Description: Palmilla to State HU Line

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

Attention: Clair Gonzales

Approved for release.
Jessica Kramer
Project Manager
4/22/2021 3:28 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
04/22/2021

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.

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.

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

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-1	880-1331-2	880-1331-3	880-1331-4	880-1331-5
Client Sample ID:	H-1 (0"-6")	H-2 (0"-6")	H-3 (0"-6")	H-4 (0"-6")	H-5 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29	
Analyzed:	04/17/2021 08:19		04/17/2021 08:45		04/17/2021 09:10		04/17/2021 09:35		04/17/2021 10:01	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200
Toluene	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200
Ethylbenzene	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200
m-Xylene & p-Xylene	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00401 U	0.00401
o-Xylene	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200
Xylenes, Total	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00401 U	0.00401
Total BTEX	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00401 U	0.00401

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

Prepared:	04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45	
Analyzed:	04/16/2021 12:13		04/16/2021 13:17		04/16/2021 13:38		04/16/2021 14:00		04/16/2021 14:21	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U F2	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0
Diesel Range Organics (Over C10-C28)	<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0
OII Range Organics (Over C28-C36)	<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0
Total TPH	<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:										
Analyzed:	04/20/2021 14:57		04/20/2021 15:02		04/20/2021 15:07		04/19/2021 10:36		04/19/2021 10:41	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride	**92.1**	5.03	**6.06**	5.05	**8.13**	4.97	**108**	4.96	**242**	4.97

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-6	880-1331-7	880-1331-8	880-1331-9	880-1331-10
Client Sample ID:	H-6 (0"-6")	H-7 (0"-6")	H-8 (0"-6")	H-9 (0"-6")	H-10 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29	
Analyzed:	04/17/2021 11:44		04/17/2021 12:09		04/17/2021 12:35		04/17/2021 13:01		04/17/2021 13:27	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200
Toluene	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200
Ethylbenzene	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200
m-Xylene & p-Xylene	<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00399 U	0.00399	<0.00399 U	0.00399	<0.00401 U	0.00401
o-Xylene	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00200 U	0.00200
Xylenes, Total	<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00399 U	0.00399	<0.00399 U	0.00399	<0.00401 U	0.00401
Total BTEX	<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00399 U	0.00399	<0.00399 U	0.00399	<0.00401 U	0.00401

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

Prepared:	04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45	
Analyzed:	04/16/2021 14:42		04/16/2021 15:04		04/16/2021 15:25		04/16/2021 15:47		04/16/2021 16:08	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
Diesel Range Organics (Over C10-C28)	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
OII Range Organics (Over C28-C36)	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
Total TPH	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:										
Analyzed:	04/19/2021 10:46		04/19/2021 10:51		04/19/2021 10:56		04/19/2021 11:11		04/19/2021 11:16	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride	**12.9**	5.00	**32.4**	5.00	**12.0**	4.95	**29.3**	5.02	**14.6**	5.05

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-11	880-1331-12	880-1331-13	880-1331-14	880-1331-15
Client Sample ID:	H-11 (0"-6")	H-12 (0"-6")	H-13 (0"-6")	H-14 (0"-6")	H-15 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29		04/16/2021 10:29	
Analyzed:	04/17/2021 13:52		04/17/2021 14:18		04/17/2021 14:44		04/17/2021 15:09		04/17/2021 15:35	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200
Toluene	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200
Ethylbenzene	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200
m-Xylene & p-Xylene	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00401 U	0.00401
o-Xylene	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200
Xylenes, Total	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00401 U	0.00401
Total BTEX	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00401 U	0.00401

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

Prepared:	04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45	
Analyzed:	04/16/2021 16:57		04/16/2021 17:19		04/16/2021 17:40		04/16/2021 18:01		04/16/2021 18:22	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9
Diesel Range Organics (Over C10-C28)	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9
Oil Range Organics (Over C28-C36)	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9
Total TPH	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:										
Analyzed:	04/19/2021 11:31		04/19/2021 11:37		04/19/2021 11:42		04/19/2021 11:47		04/19/2021 11:52	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride	**20.4**	5.04	**66.5**	5.04	**27.7**	4.97	**13.9**	4.96	**36.6**	4.97

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-16	880-1331-17	880-1331-18	880-1331-19	880-1331-20
Client Sample ID:	H-16 (0"-6")	H-17 (0"-6")	H-18 (0"-6")	H-19 (0"-6")	H-20 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10	
Analyzed:	04/16/2021 19:40		04/16/2021 20:01		04/16/2021 20:22		04/16/2021 20:42		04/16/2021 21:03	
Analyte	**Unit/RL:** mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00200 U F1	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00202 U	0.00202
Toluene	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00202 U	0.00202
Ethylbenzene	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00202 U	0.00202
m-Xylene & p-Xylene	<0.00399 U F2	0.00399	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00404 U	0.00404
o-Xylene	<0.00200 U F2	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00202 U	0.00202
Xylenes, Total	<0.00399 U F2	0.00399	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00404 U	0.00404
Total BTEX	<0.00399 U F2	0.00399	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00404 U	0.00404

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

Prepared:	04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45		04/16/2021 08:45	
Analyzed:	04/16/2021 18:44		04/16/2021 19:05		04/16/2021 19:26		04/16/2021 19:48		04/16/2021 20:09	
Analyte	**Unit/RL:** mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
Diesel Range Organics (Over C10-C28)	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
OII Range Organics (Over C28-C36)	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
Total TPH	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:										
Analyzed:	04/19/2021 11:57		04/19/2021 12:02		04/19/2021 10:23		04/19/2021 10:38		04/19/2021 10:43	
Analyte	**Unit/RL:** mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride	**6.05**	4.98	**87.8**	5.00	**33.5**	5.03	**24.2**	4.99	**8.45**	4.96

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-21	880-1331-22	880-1331-23	880-1331-24	880-1331-25
Client Sample ID:	H-21 (0"-6")	H-22 (0"-6")	H-23 (0"-6")	H-24 (0"-6")	H-25 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10	
Analyzed:	04/16/2021 21:24		04/16/2021 21:44		04/16/2021 22:05		04/16/2021 22:26		04/16/2021 22:46	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00200 U	0.00200	**0.00222**	0.00202	<0.00200 U	0.00200	**0.00379**	0.00201	<0.00201 U	0.00201
Toluene	<0.00200 U	0.00200	**0.00382**	0.00202	<0.00200 U	0.00200	**0.00456**	0.00201	<0.00201 U	0.00201
Ethylbenzene	<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00200 U	0.00200	**0.00218**	0.00201	<0.00201 U	0.00201
m-Xylene & p-Xylene	<0.00401 U	0.00401	<0.00403 U	0.00403	<0.00401 U	0.00401	<0.00402 U	0.00402	<0.00402 U	0.00402
o-Xylene	<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00200 U	0.00200	<0.00201 U	0.00201	<0.00201 U	0.00201
Xylenes, Total	<0.00401 U	0.00401	<0.00403 U	0.00403	<0.00401 U	0.00401	<0.00402 U	0.00402	<0.00402 U	0.00402
Total BTEX	<0.00401 U	0.00401	**0.00604**	0.00403	<0.00401 U	0.00401	**0.0105**	0.00402	<0.00402 U	0.00402

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

Prepared:	04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59	
Analyzed:	04/16/2021 21:54		04/16/2021 22:58		04/16/2021 23:19		04/16/2021 23:40		04/17/2021 00:02	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U F2	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0
Diesel Range Organics (Over C10-C28)	<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0
Oil Range Organics (Over C28-C36)	<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0
Total TPH	<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:										
Analyzed:	04/19/2021 10:48		04/19/2021 10:53		04/19/2021 11:09		04/19/2021 11:14		04/19/2021 11:19	
Analyte **Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride	**12.4**	4.97	**5.84**	4.99	**12.9**	4.99	**12.3**	4.98	**10.7**	4.50

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-26	880-1331-27	880-1331-28	880-1331-29	880-1331-30
Client Sample ID:	H-26 (0"-6")	H-27 (0"-6")	H-28 (0"-6")	H-29 (0"-6")	H-30 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00	04/08/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10	
	Analyzed:	04/17/2021 00:11		04/17/2021 00:32		04/17/2021 00:53		04/17/2021 01:13		04/17/2021 01:34	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200
Toluene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200
Ethylbenzene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399
o-Xylene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200
Xylenes, Total		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399
Total BTEX		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399

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

	Prepared:	04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59	
	Analyzed:	04/17/2021 00:23		04/17/2021 00:44		04/17/2021 01:05		04/17/2021 01:27		04/17/2021 01:48	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1
Total TPH		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/19/2021 11:24		04/19/2021 11:29		04/19/2021 11:34		04/19/2021 11:49		04/19/2021 11:54	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**5.68**	4.95	**13.6**	5.00	**8.98**	5.00	**40.4**	5.02	**24.8**	5.02

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-31	880-1331-33	880-1331-35	880-1331-37	880-1331-39
Client Sample ID:	AH-1 (0"-6")	AH-1 (1'-1.5')	AH-2 (0"-6")	AH-2 (1'-1.5')	AH-2 (2'-2.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10		04/16/2021 11:10		
	Analyzed:	04/17/2021 01:55		04/17/2021 02:15		04/17/2021 02:36		04/17/2021 02:57		
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL		RL
Benzene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00200 U	0.00200	**0.00283**	0.00202	N/A	
Toluene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00202 U	0.00202	N/A	
Ethylbenzene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00202 U	0.00202	N/A	
m-Xylene & p-Xylene		<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00401 U	0.00401	<0.00404 U	0.00404	N/A	
o-Xylene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00202 U	0.00202	N/A	
Xylenes, Total		<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00401 U	0.00401	<0.00404 U	0.00404	N/A	
Total BTEX		<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00401 U	0.00401	<0.00404 U	0.00404	N/A	

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

	Prepared:	04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59		
	Analyzed:	04/17/2021 02:31		04/17/2021 02:51		04/17/2021 03:13		04/17/2021 03:34		
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL		RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	N/A	
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	**61.3**	49.9	N/A	
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	N/A	
Total TPH		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	**61.3**	49.9	N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/20/2021 09:13		04/19/2021 12:15		04/19/2021 12:20		04/19/2021 12:25		04/19/2021 12:30	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**2720**	25.1	**107**	5.02	**6110**	50.4	**9170**	49.7	**12200**	99.2

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-41	880-1331-43	880-1331-45	880-1331-47	880-1331-49
Client Sample ID:	AH-2 (3'-3.5)	AH-2 (4'-4.5')	AH-3 (0"-6")	AH-3 (1'-1.5')	AH-3 (2'-2.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:					04/19/2021 11:01		04/16/2021 14:49	
	Analyzed:					04/19/2021 20:10		04/17/2021 13:14	
Analyte	**Unit/RL:**		RL		RL	mg/Kg	RL	mg/Kg	RL		RL
Benzene		N/A		N/A		<0.00200 U	0.00200	<0.00202 U	0.00202	N/A	
Toluene		N/A		N/A		<0.00200 U	0.00200	<0.00202 U	0.00202	N/A	
Ethylbenzene		N/A		N/A		<0.00200 U	0.00200	<0.00202 U	0.00202	N/A	
m-Xylene & p-Xylene		N/A		N/A		<0.00399 U	0.00399	<0.00403 U	0.00403	N/A	
o-Xylene		N/A		N/A		<0.00200 U	0.00200	<0.00202 U	0.00202	N/A	
Xylenes, Total		N/A		N/A		<0.00399 U	0.00399	<0.00403 U	0.00403	N/A	
Total BTEX		N/A		N/A		<0.00399 U	0.00399	<0.00403 U	0.00403	N/A	

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

	Prepared:					04/16/2021 08:59		04/16/2021 08:59	
	Analyzed:					04/17/2021 03:55		04/17/2021 04:16	
Analyte	**Unit/RL:**		RL		RL	mg/Kg	RL	mg/Kg	RL		RL
Gasoline Range Organics (GRO)-C6-C10		N/A		N/A		<49.9 U	49.9	<49.8 U	49.8	N/A	
Diesel Range Organics (Over C10-C28)		N/A		N/A		<49.9 U	49.9	<49.8 U	49.8	N/A	
Oil Range Organics (Over C28-C36)		N/A		N/A		<49.9 U	49.9	<49.8 U	49.8	N/A	
Total TPH		N/A		N/A		<49.9 U	49.9	<49.8 U	49.8	N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/19/2021 12:35		04/19/2021 12:40		04/22/2021 10:12		04/22/2021 10:35		04/22/2021 10:42	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**8110**	99.8	**5300**	49.8	**7300**	49.9	**9060**	50.5	**5880**	50.2

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-51	880-1331-53	880-1331-54	880-1331-56	880-1331-58
Client Sample ID:	AH-3 (3'-3.5)	AH-4 (0"-6")	AH-5 (0"-6")	AH-5 (1'-1.5')	AH-5 (2'-2.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:			04/16/2021 14:49		04/16/2021 14:49		04/16/2021 14:49			
Analyzed:			04/17/2021 13:35		04/17/2021 13:55		04/17/2021 14:15			
Analyte	**Unit/RL:**	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL		RL
Benzene	N/A		<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200	N/A	
Toluene	N/A		<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200	N/A	
Ethylbenzene	N/A		<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200	N/A	
m-Xylene & p-Xylene	N/A		<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399	N/A	
o-Xylene	N/A		<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00200 U	0.00200	N/A	
Xylenes, Total	N/A		<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399	N/A	
Total BTEX	N/A		<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00399 U	0.00399	N/A	

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

Prepared:			04/16/2021 08:59		04/16/2021 08:59		04/16/2021 08:59			
Analyzed:			04/17/2021 04:38		04/17/2021 04:59		04/17/2021 05:20			
Analyte	**Unit/RL:**	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL		RL
Gasoline Range Organics (GRO)-C6-C10	N/A		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	N/A	
Diesel Range Organics (Over C10-C28)	N/A		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	N/A	
Oil Range Organics (Over C28-C36)	N/A		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	N/A	
Total TPH	N/A		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0	N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:										
Analyzed:	04/22/2021 10:50		04/22/2021 10:58		04/20/2021 12:48		04/20/2021 13:04		04/20/2021 13:10	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**425**	4.98	**6900**	49.7	**7590**	50.1	**8380**	49.7	**6920**	49.8

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-60	880-1331-62	880-1331-64	880-1331-66	880-1331-68
Client Sample ID:	AH-5 (3'-3.5)	AH-6 (0"-6")	AH-6 (1'-1.5')	AH-6 (2'-2.5')	AH-6 (3'-3.5)
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:			04/16/2021 14:49		04/16/2021 15:25				
	Analyzed:			04/17/2021 14:36		04/19/2021 16:43				
Analyte	**Unit/RL:**		RL	mg/Kg	RL	mg/Kg	RL		RL		RL
Benzene		N/A		<0.00199 U	0.00199	<0.00201 U	0.00201	N/A		N/A	
Toluene		N/A		<0.00199 U	0.00199	<0.00201 U	0.00201	N/A		N/A	
Ethylbenzene		N/A		<0.00199 U	0.00199	<0.00201 U	0.00201	N/A		N/A	
m-Xylene & p-Xylene		N/A		<0.00398 U	0.00398	<0.00402 U	0.00402	N/A		N/A	
o-Xylene		N/A		<0.00199 U	0.00199	<0.00201 U	0.00201	N/A		N/A	
Xylenes, Total		N/A		<0.00398 U	0.00398	<0.00402 U	0.00402	N/A		N/A	
Total BTEX		N/A		<0.00398 U	0.00398	<0.00402 U	0.00402	N/A		N/A	

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

	Prepared:			04/16/2021 08:59		04/16/2021 09:17				
	Analyzed:			04/17/2021 05:41		04/16/2021 15:09				
Analyte	**Unit/RL:**		RL	mg/Kg	RL	mg/Kg	RL		RL		RL
Gasoline Range Organics (GRO)-C6-C10		N/A		<50.1 U	50.1	<49.9 U	49.9	N/A		N/A	
Diesel Range Organics (Over C10-C28)		N/A		<50.1 U	50.1	<49.9 U	49.9	N/A		N/A	
Oil Range Organics (Over C28-C36)		N/A		<50.1 U	50.1	<49.9 U	49.9	N/A		N/A	
Total TPH		N/A		<50.1 U	50.1	<49.9 U	49.9	N/A		N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:									
	Analyzed:	04/20/2021 13:15		04/20/2021 13:21		04/20/2021 13:37		04/20/2021 13:43		04/20/2021 13:48	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**410**	5.02	**7750**	50.2	**8230**	49.9	**8470**	49.6	**9620**	50.3

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-70	880-1331-72	880-1331-74	880-1331-76	880-1331-78
Client Sample ID:	AH-6 (4'-4.5')	AH-7 (0"-6")	AH-7 (1'-1.5')	AH-7 (2'-2.5')	AH-7 (3'-3.5)
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:			04/16/2021 15:25		04/16/2021 15:25				
	Analyzed:			04/19/2021 17:12		04/19/2021 18:36				
Analyte	**Unit/RL:**		RL	mg/Kg	RL	mg/Kg	RL		RL		RL
Benzene		N/A		<0.00199 U	0.00199	<0.00199 U	0.00199	N/A		N/A	
Toluene		N/A		<0.00199 U	0.00199	<0.00199 U	0.00199	N/A		N/A	
Ethylbenzene		N/A		<0.00199 U	0.00199	<0.00199 U	0.00199	N/A		N/A	
m-Xylene & p-Xylene		N/A		<0.00398 U	0.00398	<0.00398 U	0.00398	N/A		N/A	
o-Xylene		N/A		<0.00199 U	0.00199	<0.00199 U	0.00199	N/A		N/A	
Xylenes, Total		N/A		<0.00398 U	0.00398	<0.00398 U	0.00398	N/A		N/A	
Total BTEX		N/A		<0.00398 U	0.00398	<0.00398 U	0.00398	N/A		N/A	

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

	Prepared:			04/16/2021 09:17		04/16/2021 09:17				
	Analyzed:			04/16/2021 16:14		04/16/2021 16:36				
Analyte	**Unit/RL:**		RL	mg/Kg	RL	mg/Kg	RL		RL		RL
Gasoline Range Organics (GRO)-C6-C10		N/A		<49.9 U	49.9	<49.8 U	49.8	N/A		N/A	
Diesel Range Organics (Over C10-C28)		N/A		<49.9 U	49.9	<49.8 U	49.8	N/A		N/A	
Oil Range Organics (Over C28-C36)		N/A		<49.9 U	49.9	<49.8 U	49.8	N/A		N/A	
Total TPH		N/A		<49.9 U	49.9	<49.8 U	49.8	N/A		N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:									
	Analyzed:	04/20/2021 13:54		04/20/2021 14:00		04/20/2021 14:05		04/20/2021 14:22		04/20/2021 14:27	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**6840**	50.5	**90400**	547	**10400**	49.9	**1240**	24.8	**2400**	24.8

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-80	880-1331-82	880-1331-84	880-1331-86	880-1331-88
Client Sample ID:	AH-8 (0"-6")	AH-8 (1'-1.5')	AH-8 (2'-2.5')	AH-8 (3'-3.5)	AH-8 (4'-4.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/16/2021 15:25		04/16/2021 15:25						
	Analyzed:	04/19/2021 18:56		04/19/2021 19:17						
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL		RL
Benzene		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A		N/A	
Toluene		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A		N/A	
Ethylbenzene		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A		N/A	
m-Xylene & p-Xylene		<0.00400 U	0.00400	<0.00399 U	0.00399	N/A		N/A		N/A	
o-Xylene		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A		N/A	
Xylenes, Total		<0.00400 U	0.00400	<0.00399 U	0.00399	N/A		N/A		N/A	
Total BTEX		<0.00400 U	0.00400	<0.00399 U	0.00399	N/A		N/A		N/A	

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

	Prepared:	04/16/2021 09:17		04/16/2021 09:17						
	Analyzed:	04/16/2021 16:58		04/16/2021 17:19						
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL		RL
Gasoline Range Organics (GRO)-C6-C10		<49.9 U	49.9	<50.0 U	50.0	N/A		N/A		N/A	
Diesel Range Organics (Over C10-C28)		<49.9 U	49.9	<50.0 U	50.0	N/A		N/A		N/A	
Oil Range Organics (Over C28-C36)		<49.9 U	49.9	<50.0 U	50.0	N/A		N/A		N/A	
Total TPH		<49.9 U	49.9	<50.0 U	50.0	N/A		N/A		N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/20/2021 14:44		04/20/2021 14:49		04/19/2021 16:03		04/19/2021 16:20		04/19/2021 16:26	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**8310**	49.9	**11300**	99.6	**10400**	49.9	**6240**	49.6	**792**	4.95

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-90	880-1331-92	880-1331-94	880-1331-96	880-1331-98
Client Sample ID:	AH-9 (0"-6")	AH-9 (1'-1.5')	AH-9 (2'-2.5')	AH-9 (3'-3.5)	AH-9 (4'-4.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/16/2021 15:25		04/16/2021 15:25						
	Analyzed:	04/19/2021 19:38		04/19/2021 19:58						
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL		RL
Benzene		<0.00202 U	0.00202	<0.00200 U	0.00200	N/A		N/A		N/A	
Toluene		<0.00202 U	0.00202	<0.00200 U	0.00200	N/A		N/A		N/A	
Ethylbenzene		<0.00202 U	0.00202	<0.00200 U	0.00200	N/A		N/A		N/A	
m-Xylene & p-Xylene		<0.00404 U	0.00404	<0.00401 U	0.00401	N/A		N/A		N/A	
o-Xylene		<0.00202 U	0.00202	<0.00200 U	0.00200	N/A		N/A		N/A	
Xylenes, Total		<0.00404 U	0.00404	<0.00401 U	0.00401	N/A		N/A		N/A	
Total BTEX		<0.00404 U	0.00404	<0.00401 U	0.00401	N/A		N/A		N/A	

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

	Prepared:	04/16/2021 09:17		04/16/2021 09:17						
	Analyzed:	04/16/2021 17:41		04/16/2021 18:02						
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL		RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	<50.0 U	50.0	N/A		N/A		N/A	
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	<50.0 U	50.0	N/A		N/A		N/A	
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	<50.0 U	50.0	N/A		N/A		N/A	
Total TPH		<50.0 U	50.0	<50.0 U	50.0	N/A		N/A		N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/19/2021 16:31		04/20/2021 09:02		04/19/2021 16:53		04/19/2021 16:59		04/19/2021 17:04	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**12900**	101	**18100**	100	**7770**	50.2	**4480**	49.8	**2900**	25.2

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-99	880-1331-101	880-1331-103	880-1331-105	880-1331-107
Client Sample ID:	AH-10 (0"-6")	AH-10 (1'-1.5')	AH-10 (2'-2.5')	AH-10 (3'-3.5')	AH-10 (4'-4.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00	04/09/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/16/2021 15:25		04/16/2021 15:25						
	Analyzed:	04/19/2021 20:19		04/19/2021 20:40						
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL	RL
Benzene		<0.00198 U	0.00198	<0.00200 U	0.00200	N/A		N/A		N/A
Toluene		<0.00198 U	0.00198	<0.00200 U	0.00200	N/A		N/A		N/A
Ethylbenzene		<0.00198 U	0.00198	<0.00200 U	0.00200	N/A		N/A		N/A
m-Xylene & p-Xylene		<0.00396 U	0.00396	<0.00399 U	0.00399	N/A		N/A		N/A
o-Xylene		<0.00198 U	0.00198	<0.00200 U	0.00200	N/A		N/A		N/A
Xylenes, Total		<0.00396 U	0.00396	<0.00399 U	0.00399	N/A		N/A		N/A
Total BTEX		<0.00396 U	0.00396	<0.00399 U	0.00399	N/A		N/A		N/A

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

	Prepared:	04/16/2021 09:17		04/16/2021 09:17						
	Analyzed:	04/16/2021 18:24		04/16/2021 18:46						
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL	RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	<50.0 U	50.0	N/A		N/A		N/A
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	<50.0 U	50.0	N/A		N/A		N/A
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	<50.0 U	50.0	N/A		N/A		N/A
Total TPH		<50.0 U	50.0	<50.0 U	50.0	N/A		N/A		N/A

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:									
	Analyzed:	04/19/2021 17:10		04/19/2021 17:15		04/19/2021 17:21		04/19/2021 17:38		04/19/2021 17:43
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**9230**	49.8	**13200**	99.6	**5800**	50.5	**3950**	49.8	**1250**	25.0

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-109	880-1331-111	880-1331-113	880-1331-115	880-1331-118
Client Sample ID:	AH-11 (0"-6")	AH-11 (1'-1.5')	AH-11 (2'-2.5')	AH-11 (3.-3.5')	AH-12 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/16/2021 15:25		04/16/2021 15:25						04/16/2021 15:25
	Analyzed:	04/19/2021 21:00		04/19/2021 21:21						04/19/2021 21:42
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL	mg/Kg	RL
Benzene		<0.00198 U	0.00198	<0.00198 U	0.00198	N/A		N/A		<0.00198 U	0.00198
Toluene		<0.00198 U	0.00198	<0.00198 U	0.00198	N/A		N/A		<0.00198 U	0.00198
Ethylbenzene		<0.00198 U	0.00198	<0.00198 U	0.00198	N/A		N/A		<0.00198 U	0.00198
m-Xylene & p-Xylene		<0.00396 U	0.00396	<0.00397 U	0.00397	N/A		N/A		<0.00397 U	0.00397
o-Xylene		<0.00198 U	0.00198	<0.00198 U	0.00198	N/A		N/A		<0.00198 U	0.00198
Xylenes, Total		<0.00396 U	0.00396	<0.00397 U	0.00397	N/A		N/A		<0.00397 U	0.00397
Total BTEX		<0.00396 U	0.00396	<0.00397 U	0.00397	N/A		N/A		<0.00397 U	0.00397

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

	Prepared:	04/16/2021 09:17		04/16/2021 09:17						04/16/2021 09:17
	Analyzed:	04/16/2021 19:07		04/16/2021 19:50						04/16/2021 20:12
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.1 U	50.1	<50.0 U	50.0	N/A		N/A		<50.0 U	50.0
Diesel Range Organics (Over C10-C28)		<50.1 U	50.1	<50.0 U	50.0	N/A		N/A		<50.0 U	50.0
Oil Range Organics (Over C28-C36)		<50.1 U	50.1	<50.0 U	50.0	N/A		N/A		<50.0 U	50.0
Total TPH		<50.1 U	50.1	<50.0 U	50.0	N/A		N/A		<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:									
	Analyzed:	04/19/2021 18:00		04/19/2021 18:05		04/19/2021 18:11		04/19/2021 18:16		04/19/2021 18:22
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**3780**	24.8	**10400**	50.0	**8740**	50.0	**6740**	49.7	**214**	4.99

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-122	880-1331-124	880-1331-126	880-1331-128	880-1331-129
Client Sample ID:	AH-14 (0"-6")	AH-14 (1'-1.5')	AH-15 (0"-6")	AH-15 (1'-1.5')	AH-16 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/19/2021 10:02		04/19/2021 10:02		04/19/2021 10:02		04/19/2021 10:02		04/19/2021 10:02	
Analyzed:	04/20/2021 19:27		04/20/2021 19:53		04/20/2021 20:19		04/20/2021 20:44		04/20/2021 21:10	
Analyte	**Unit/RL:** mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene	<0.00198 U F2 F1	0.00198	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199
Toluene	<0.00198 U F2 F1	0.00198	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199
Ethylbenzene	<0.00198 U F2 F1	0.00198	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199
m-Xylene & p-Xylene	<0.00397 U F2 F1	0.00397	<0.00397 U	0.00397	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00398 U	0.00398
o-Xylene	<0.00198 U F2 F1	0.00198	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199
Xylenes, Total	<0.00397 U F2 F1	0.00397	<0.00397 U	0.00397	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00398 U	0.00398
Total BTEX	<0.00397 U F2 F1	0.00397	<0.00397 U	0.00397	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00398 U	0.00398

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

Prepared:	04/16/2021 09:17		04/16/2021 09:17		04/16/2021 09:17		04/16/2021 09:17		04/16/2021 09:17	
Analyzed:	04/16/2021 20:33		04/16/2021 20:55		04/16/2021 21:16		04/16/2021 21:37		04/16/2021 21:59	
Analyte	**Unit/RL:** mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<50.0 U	50.0
Diesel Range Organics (Over C10-C28)	<50.0 U	50.0	<49.9 U	49.9	**60.6**	49.9	<49.8 U	49.8	<50.0 U	50.0
OII Range Organics (Over C28-C36)	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<50.0 U	50.0
Total TPH	<50.0 U	50.0	<49.9 U	49.9	**60.6**	49.9	<49.8 U	49.8	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:										
Analyzed:	04/19/2021 18:27		04/19/2021 18:33		04/19/2021 14:52		04/19/2021 15:07		04/19/2021 15:12	
Analyte	**Unit/RL:** mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride	**18.6**	4.95	**16.0**	5.00	**32.7**	4.96	**65.2**	5.04	**58.8**	5.02

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-131	880-1331-133	880-1331-135	880-1331-137	880-1331-139
Client Sample ID:	AH-17 (0"-6")	AH-17 (1'-1.5')	AH-18 (0"-6")	AH-19 (0"-6")	AH-20 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:		04/19/2021 10:02		04/19/2021 10:02		04/19/2021 10:02		04/19/2021 10:02		04/19/2021 10:02	
Analyzed:		04/20/2021 21:36		04/20/2021 22:01		04/20/2021 22:27		04/20/2021 22:53		04/20/2021 23:19	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00202 U	0.00202	<0.00200 U	0.00200
Toluene		<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00202 U	0.00202	<0.00200 U	0.00200
Ethylbenzene		<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00202 U	0.00202	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00396 U	0.00396	<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00403 U	0.00403	<0.00401 U	0.00401
o-Xylene		<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00202 U	0.00202	<0.00200 U	0.00200
Xylenes, Total		<0.00396 U	0.00396	<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00403 U	0.00403	<0.00401 U	0.00401
Total BTEX		<0.00396 U	0.00396	<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00403 U	0.00403	<0.00401 U	0.00401

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

Prepared:		04/16/2021 09:17		04/16/2021 09:17		04/16/2021 09:17		04/16/2021 09:31		04/16/2021 09:31	
Analyzed:		04/16/2021 22:20		04/16/2021 22:41		04/16/2021 23:03		04/16/2021 15:09		04/16/2021 16:14	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1	<49.9 U	49.9	<49.9 U	49.9
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1	<49.9 U	49.9	<49.9 U	49.9
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1	<49.9 U	49.9	<49.9 U	49.9
Total TPH		<50.0 U	50.0	<50.0 U	50.0	<50.1 U	50.1	<49.9 U	49.9	<49.9 U	49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:											
Analyzed:		04/19/2021 15:18		04/19/2021 15:23		04/19/2021 15:38		04/19/2021 15:43		04/19/2021 15:48	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**7040**	49.8	**1800**	25.0	**29.4**	5.00	**89.7**	5.00	**696**	5.00

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-141	880-1331-143	880-1331-145	880-1331-147	880-1331-149
Client Sample ID:	AH-20 (1'-1.5')	AH-20 (2'-2.5')	AH-20 (3'-3.5')	AH-20 (4'-4.5')	AH-21 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/19/2021 10:02								04/19/2021 10:02	
	Analyzed:	04/21/2021 01:02								04/21/2021 01:28	
Analyte	**Unit/RL:**	mg/Kg	RL		RL		RL		RL	mg/Kg	RL
Benzene		<0.00202 U	0.00202	N/A		N/A		N/A		<0.00200 U	0.00200
Toluene		<0.00202 U	0.00202	N/A		N/A		N/A		<0.00200 U	0.00200
Ethylbenzene		<0.00202 U	0.00202	N/A		N/A		N/A		<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00404 U	0.00404	N/A		N/A		N/A		<0.00399 U	0.00399
o-Xylene		<0.00202 U	0.00202	N/A		N/A		N/A		<0.00200 U	0.00200
Xylenes, Total		<0.00404 U	0.00404	N/A		N/A		N/A		<0.00399 U	0.00399
Total BTEX		<0.00404 U	0.00404	N/A		N/A		N/A		<0.00399 U	0.00399

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

	Prepared:	04/16/2021 09:31								04/16/2021 09:31	
	Analyzed:	04/16/2021 16:36								04/16/2021 16:58	
Analyte	**Unit/RL:**	mg/Kg	RL		RL		RL		RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<49.8 U	49.8	N/A		N/A		N/A		<49.9 U	49.9
Diesel Range Organics (Over C10-C28)		<49.8 U	49.8	N/A		N/A		N/A		<49.9 U	49.9
OII Range Organics (Over C28-C36)		<49.8 U	49.8	N/A		N/A		N/A		<49.9 U	49.9
Total TPH		<49.8 U	49.8	N/A		N/A		N/A		<49.9 U	49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/19/2021 15:53		04/19/2021 15:58		04/19/2021 16:03		04/19/2021 16:19		04/19/2021 16:24	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**6960**	50.4	**2450**	24.8	**891 F1**	4.95	**506**	5.04	**12500**	101

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-151	880-1331-153	880-1331-155	880-1331-157	880-1331-159
Client Sample ID:	AH-21 (1'-1.5')	AH-21 (2'-2.5')	AH-21 (3'-3.5')	AH-21 (4'-4.5')	AH-22 (0"-6')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/19/2021 10:02								04/19/2021 10:02	
	Analyzed:	04/21/2021 01:54								04/21/2021 02:19	
Analyte	**Unit/RL:**	mg/Kg	RL		RL		RL		RL	mg/Kg	RL
Benzene		<0.00198 U	0.00198	N/A		N/A		N/A		<0.00201 U	0.00201
Toluene		<0.00198 U	0.00198	N/A		N/A		N/A		<0.00201 U	0.00201
Ethylbenzene		<0.00198 U	0.00198	N/A		N/A		N/A		<0.00201 U	0.00201
m-Xylene & p-Xylene		<0.00396 U	0.00396	N/A		N/A		N/A		<0.00402 U	0.00402
o-Xylene		<0.00198 U	0.00198	N/A		N/A		N/A		<0.00201 U	0.00201
Xylenes, Total		<0.00396 U	0.00396	N/A		N/A		N/A		<0.00402 U	0.00402
Total BTEX		<0.00396 U	0.00396	N/A		N/A		N/A		<0.00402 U	0.00402

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

	Prepared:	04/16/2021 09:31								04/16/2021 09:31	
	Analyzed:	04/16/2021 17:19								04/16/2021 17:41	
Analyte	**Unit/RL:**	mg/Kg	RL		RL		RL		RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	N/A		N/A		N/A		<50.0 U	50.0
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	N/A		N/A		N/A		<50.0 U	50.0
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	N/A		N/A		N/A		<50.0 U	50.0
Total TPH		<50.0 U	50.0	N/A		N/A		N/A		<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/19/2021 16:39		04/19/2021 16:44		04/19/2021 16:49		04/19/2021 16:54		04/19/2021 20:24	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**5620**	49.7	**6470**	49.9	**8250**	49.8	**5950**	50.0	**7370**	50.0

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-161	880-1331-163	880-1331-165	880-1331-166	880-1331-167
Client Sample ID:	AH-22 (1'-1.5')	AH-22 (2'-2.5')	AH-22 (3'-3.5')	AH-23 (0"-6")	AH-24 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/19/2021 10:02						04/19/2021 10:02		04/19/2021 10:02	
	Analyzed:	04/21/2021 02:45						04/21/2021 03:11		04/21/2021 03:37	
Analyte	**Unit/RL:**	mg/Kg	RL		RL		RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00199 U	0.00199	N/A		N/A		<0.00200 U	0.00200	<0.00200 U	0.00200
Toluene		<0.00199 U	0.00199	N/A		N/A		<0.00200 U	0.00200	<0.00200 U	0.00200
Ethylbenzene		<0.00199 U	0.00199	N/A		N/A		<0.00200 U	0.00200	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00398 U	0.00398	N/A		N/A		<0.00400 U	0.00400	<0.00399 U	0.00399
o-Xylene		<0.00199 U	0.00199	N/A		N/A		<0.00200 U	0.00200	<0.00200 U	0.00200
Xylenes, Total		<0.00398 U	0.00398	N/A		N/A		<0.00400 U	0.00400	<0.00399 U	0.00399
Total BTEX		<0.00398 U	0.00398	N/A		N/A		<0.00400 U	0.00400	<0.00399 U	0.00399

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

	Prepared:	04/16/2021 09:31						04/16/2021 09:31		04/16/2021 09:31	
	Analyzed:	04/16/2021 18:02						04/16/2021 18:24		04/16/2021 18:46	
Analyte	**Unit/RL:**	mg/Kg	RL		RL		RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	N/A		N/A		<50.0 U	50.0	<50.0 U	50.0
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	N/A		N/A		<50.0 U	50.0	<50.0 U	50.0
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	N/A		N/A		<50.0 U	50.0	<50.0 U	50.0
Total TPH		<50.0 U	50.0	N/A		N/A		<50.0 U	50.0	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/19/2021 17:01		04/19/2021 17:06		04/19/2021 18:02		04/19/2021 18:17		04/19/2021 18:22	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**292**	5.04	**204**	5.05	**154**	5.00	**8680**	49.6	**2370**	24.8

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-169	880-1331-171	880-1331-172	880-1331-174	880-1331-176
Client Sample ID:	AH-24 (1'-1.5')	AH-24 (2'-2.5')	AH-25 (0"-6")	AH-26 (0"-6")	AH-26 (1'-1.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/19/2021 10:02				04/19/2021 10:02		04/19/2021 10:02		04/19/2021 13:30	
Analyzed:	04/21/2021 04:03				04/21/2021 04:29		04/21/2021 04:55		04/20/2021 13:48	
Analyte	**Unit/RL:**	mg/Kg	RL		RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00202 U	0.00202	N/A		<0.00201 U	0.00201	<0.00201 U	0.00201	<0.00202 U F1	0.00202
Toluene		<0.00202 U	0.00202	N/A		<0.00201 U	0.00201	<0.00201 U	0.00201	<0.00202 U F1	0.00202
Ethylbenzene		<0.00202 U	0.00202	N/A		<0.00201 U	0.00201	<0.00201 U	0.00201	<0.00202 U F1	0.00202
m-Xylene & p-Xylene		<0.00404 U	0.00404	N/A		<0.00402 U	0.00402	<0.00402 U	0.00402	<0.00404 U F1	0.00404
o-Xylene		<0.00202 U	0.00202	N/A		<0.00201 U	0.00201	<0.00201 U	0.00201	<0.00202 U F1	0.00202
Xylenes, Total		<0.00404 U	0.00404	N/A		<0.00402 U	0.00402	<0.00402 U	0.00402	<0.00404 U F1	0.00404
Total BTEX		<0.00404 U	0.00404	N/A		<0.00402 U	0.00402	<0.00402 U	0.00402	<0.00404 U F2 F1	0.00404

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

Prepared:	04/16/2021 09:31				04/16/2021 09:31		04/16/2021 09:31		04/16/2021 09:31	
Analyzed:	04/16/2021 19:07				04/16/2021 19:50		04/16/2021 20:12		04/16/2021 20:33	
Analyte	**Unit/RL:**	mg/Kg	RL		RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.1 U	50.1	N/A		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0
Diesel Range Organics (Over C10-C28)		<50.1 U	50.1	N/A		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0
OII Range Organics (Over C28-C36)		<50.1 U	50.1	N/A		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0
Total TPH		<50.1 U	50.1	N/A		<50.0 U	50.0	<50.0 U	50.0	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:										
Analyzed:	04/19/2021 18:27		04/19/2021 18:32		04/19/2021 18:47		04/19/2021 18:53		04/19/2021 18:58	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**340**	5.05	**266**	4.98	**17.3**	5.00	**6930**	50.0	**7870**	50.2

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-178	880-1331-179	880-1331-181	880-1331-183	880-1331-185
Client Sample ID:	AH-26 (2'-2.5')	AH-27 (0"-6")	AH-27 (1'-1.5')	AH-27 (2'-2.5')	AH-27 (3'-3.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:			04/19/2021 13:30		04/19/2021 13:30				
	Analyzed:			04/20/2021 14:08		04/20/2021 14:28				
Analyte	**Unit/RL:**		RL	mg/Kg	RL	mg/Kg	RL		RL		RL
Benzene		N/A		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A	
Toluene		N/A		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A	
Ethylbenzene		N/A		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A	
m-Xylene & p-Xylene		N/A		<0.00401 U	0.00401	<0.00399 U	0.00399	N/A		N/A	
o-Xylene		N/A		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A	
Xylenes, Total		N/A		<0.00401 U	0.00401	<0.00399 U	0.00399	N/A		N/A	
Total BTEX		N/A		<0.00401 U	0.00401	<0.00399 U	0.00399	N/A		N/A	

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

	Prepared:			04/16/2021 09:31		04/16/2021 09:31				
	Analyzed:			04/16/2021 20:55		04/16/2021 21:16				
Analyte	**Unit/RL:**		RL	mg/Kg	RL	mg/Kg	RL		RL		RL
Gasoline Range Organics (GRO)-C6-C10		N/A		<49.9 U	49.9	<49.9 U	49.9	N/A		N/A	
Diesel Range Organics (Over C10-C28)		N/A		<49.9 U	49.9	<49.9 U	49.9	N/A		N/A	
Oil Range Organics (Over C28-C36)		N/A		<49.9 U	49.9	<49.9 U	49.9	N/A		N/A	
Total TPH		N/A		<49.9 U	49.9	<49.9 U	49.9	N/A		N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:									
	Analyzed:	04/19/2021 19:03		04/19/2021 19:08		04/19/2021 19:13		04/19/2021 19:28		04/19/2021 19:33	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**7780**	50.3	**4110**	25.0	**5180**	24.8	**6880**	50.3	**9710**	50.0

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-187	880-1331-189	880-1331-191	880-1331-193	880-1331-195
Client Sample ID:	AH-27 (4'-4.5')	AH-28 (0"-6")	AH-28 (1'-1.5')	AH-28 (2'-2.5')	AH-28 (3'-3.5')
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:			04/19/2021 13:30		04/19/2021 13:30				
	Analyzed:			04/20/2021 14:49		04/20/2021 15:09				
Analyte	**Unit/RL:**		RL	mg/Kg	RL	mg/Kg	RL		RL		RL
Benzene		N/A		<0.00199 U	0.00199	<0.00200 U	0.00200	N/A		N/A	
Toluene		N/A		<0.00199 U	0.00199	<0.00200 U	0.00200	N/A		N/A	
Ethylbenzene		N/A		<0.00199 U	0.00199	<0.00200 U	0.00200	N/A		N/A	
m-Xylene & p-Xylene		N/A		<0.00398 U	0.00398	<0.00401 U	0.00401	N/A		N/A	
o-Xylene		N/A		<0.00199 U	0.00199	<0.00200 U	0.00200	N/A		N/A	
Xylenes, Total		N/A		<0.00398 U	0.00398	<0.00401 U	0.00401	N/A		N/A	
Total BTEX		N/A		<0.00398 U	0.00398	<0.00401 U	0.00401	N/A		N/A	

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

	Prepared:			04/16/2021 09:31		04/16/2021 09:31				
	Analyzed:			04/16/2021 21:37		04/16/2021 21:59				
Analyte	**Unit/RL:**		RL	mg/Kg	RL	mg/Kg	RL		RL		RL
Gasoline Range Organics (GRO)-C6-C10		N/A		<49.8 U	49.8	<50.0 U	50.0	N/A		N/A	
Diesel Range Organics (Over C10-C28)		N/A		<49.8 U	49.8	<50.0 U	50.0	N/A		N/A	
OII Range Organics (Over C28-C36)		N/A		<49.8 U	49.8	<50.0 U	50.0	N/A		N/A	
Total TPH		N/A		<49.8 U	49.8	<50.0 U	50.0	N/A		N/A	

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:									
	Analyzed:	04/19/2021 19:49		04/19/2021 19:54		04/19/2021 19:59		04/19/2021 20:04		04/19/2021 20:09	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**9280**	49.7	**4650**	25.0	**7330**	49.6	**6720**	50.0	**7450**	49.5

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-197	880-1331-199	880-1331-201	880-1331-203	880-1331-205
Client Sample ID:	AH-29 (0"-6")	AH-29 (1'-1.5')	AH-29 (2'-2.5')	AH-29 (3'-3.5')	AH-30 (0"-6")
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/19/2021 13:30		04/19/2021 13:30						04/19/2021 13:30	
	Analyzed:	04/20/2021 15:30		04/20/2021 15:50						04/20/2021 16:11	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL	mg/Kg	RL
Benzene		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A		<0.00200 U	0.00200
Toluene		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A		<0.00200 U	0.00200
Ethylbenzene		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A		<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00399 U	0.00399	<0.00399 U	0.00399	N/A		N/A		<0.00401 U	0.00401
o-Xylene		<0.00200 U	0.00200	<0.00200 U	0.00200	N/A		N/A		<0.00200 U	0.00200
Xylenes, Total		<0.00399 U	0.00399	<0.00399 U	0.00399	N/A		N/A		<0.00401 U	0.00401
Total BTEX		<0.00399 U	0.00399	<0.00399 U	0.00399	N/A		N/A		<0.00401 U	0.00401

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

	Prepared:	04/16/2021 09:31		04/16/2021 09:31						04/16/2021 09:31	
	Analyzed:	04/16/2021 22:20		04/16/2021 22:41						04/16/2021 23:03	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL		RL		RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	**50.7**	50.0	N/A		N/A		<50.1 U	50.1
Diesel Range Organics (Over C10-C28)		**202**	50.0	**103**	50.0	N/A		N/A		<50.1 U	50.1
Oil Range Organics (Over C28-C36)		**75.5**	50.0	<50.0 U	50.0	N/A		N/A		<50.1 U	50.1
Total TPH		**278**	50.0	**154**	50.0	N/A		N/A		<50.1 U	50.1

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed:	04/19/2021 20:14		04/19/2021 20:19		04/19/2021 17:47		04/19/2021 18:03		04/19/2021 18:08	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**9140**	49.5	**7000**	50.0	**6500**	50.0	**2210**	25.1	**2970**	25.0

Client Sample Result Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID:	880-1331-207	880-1331-209	880-1331-211	880-1331-213
Client Sample ID:	AH-30 (1'-1.5')	AH-30 (2'-2.5')	AH-30 (3'-3.5")	AH-30 (4'-4.5")
Matrix:	Solid	Solid	Solid	Solid
Date Collected:	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00	04/14/2021 00:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	04/19/2021 13:30						
	Analyzed:	04/20/2021 16:31						
Analyte	**Unit/RL:**	mg/Kg	RL		RL		RL	
Benzene		<0.00200 U	0.00200	N/A		N/A		N/A
Toluene		<0.00200 U	0.00200	N/A		N/A		N/A
Ethylbenzene		<0.00200 U	0.00200	N/A		N/A		N/A
m-Xylene & p-Xylene		<0.00399 U	0.00399	N/A		N/A		N/A
o-Xylene		<0.00200 U	0.00200	N/A		N/A		N/A
Xylenes, Total		<0.00399 U	0.00399	N/A		N/A		N/A
Total BTEX		<0.00399 U	0.00399	N/A		N/A		N/A

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

	Prepared:	04/16/2021 12:09						
	Analyzed:	04/17/2021 19:12						
Analyte	**Unit/RL:**	mg/Kg	RL		RL		RL	
Gasoline Range Organics (GRO)-C6-C10		<49.9 U	49.9	N/A		N/A		N/A
Diesel Range Organics (Over C10-C28)		<49.9 U	49.9	N/A		N/A		N/A
Oil Range Organics (Over C28-C36)		<49.9 U	49.9	N/A		N/A		N/A
Total TPH		<49.9 U	49.9	N/A		N/A		N/A

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:							
	Analyzed:	04/19/2021 18:13		04/19/2021 18:18		04/19/2021 18:33		04/19/2021 18:38	
Analyte	**Unit/RL:**	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		**8750**	49.5	**6120**	49.7	**6310**	49.5	**6660**	49.5

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 880-1331-1
Laboratory Sample Delivery Group: Eddy County, NM
Client Project/Site: Palmilla to State HU Line

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
4/22/2021 3:28:38 PM

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 6
Surrogate Summary 66
QC Sample Results 71
QC Association Summary 94
Lab Chronicle 112
Certification Summary 139
Method Summary 140
Sample Summary 141
Chain of Custody 144
Receipt Checklists 166

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Job ID: 880-1331-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1331-1

Comments
No additional comments.

Receipt
The samples were received on 4/15/2021 3:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: H-17 (0"-6") (880-1331-17), H-18 (0"-6") (880-1331-18), H-19 (0"-6") (880-1331-19), H-21 (0"-6") (880-1331-21), H-22 (0"-6") (880-1331-22), H-23 (0"-6") (880-1331-23), H-24 (0"-6") (880-1331-24), H-25 (0"-6") (880-1331-25), H-26 (0"-6") (880-1331-26), AH-2 (1'-1.5') (880-1331-37), (880-1331-A-16-B MS) and (880-1331-A-16-C MSD). 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: H-29 (0"-6") (880-1331-29), H-30 (0"-6") (880-1331-30) and AH-1 (0"-6") (880-1331-31). 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 880-1889 and analytical batch 880-1905 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: H-2 (0"-6") (880-1331-2), H-3 (0"-6") (880-1331-3), H-4 (0"-6") (880-1331-4), H-5 (0"-6") (880-1331-5), H-8 (0"-6") (880-1331-8), H-9 (0"-6") (880-1331-9), H-10 (0"-6") (880-1331-10), H-11 (0"-6") (880-1331-11), H-12 (0"-6") (880-1331-12), H-13 (0"-6") (880-1331-13), H-14 (0"-6") (880-1331-14) and H-15 (0"-6") (880-1331-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: H-1 (0"-6") (880-1331-1), H-2 (0"-6") (880-1331-2), H-5 (0"-6") (880-1331-5), H-6 (0"-6") (880-1331-6), H-9 (0"-6") (880-1331-9), H-10 (0"-6") (880-1331-10), H-13 (0"-6") (880-1331-13) and H-15 (0"-6") (880-1331-15). The sample(s) shows evidence of matrix interference.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1872 and analytical batch 880-1897 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 880-1975 and analytical batch 880-1974 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 880-1985 and analytical batch 880-2028 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 continuing calibration verification (CCV) associated with batch 880-2056 recovered above the upper control limit for <AffectedAnalytes>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: AH-14 (0"-6") (880-1331-122), AH-14 (1'-1.5') (880-1331-124), AH-15 (0"-6") (880-1331-126), AH-15 (1'-1.5') (880-1331-128), AH-16 (0"-6") (880-1331-129), AH-17 (0"-6") (880-1331-131), AH-17 (1'-1.5') (880-1331-133), AH-18 (0"-6") (880-1331-135), AH-19 (0"-6") (880-1331-137), AH-20 (0"-6") (880-1331-139), AH-20 (1'-1.5') (880-1331-141), AH-21 (0"-6") (880-1331-149), AH-21 (1'-1.5') (880-1331-151), AH-22 (0"-6') (880-1331-159), AH-22 (1'-1.5') (880-1331-161), AH-23 (0"-6") (880-1331-166), AH-24 (0"-6") (880-1331-167), AH-24 (1'-1.5') (880-1331-169), AH-25 (0"-6") (880-1331-172), AH-26 (0"-6") (880-1331-174) and (CCV 880-2056/33).

Method 8021B: Surrogate recovery for the following sample was outside control limits: AH-14 (1'-1.5') (880-1331-124). Evidence of matrix

Case Narrative

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Job ID: 880-1331-1 (Continued)

Laboratory: Eurofins Xenco, Midland (Continued)

interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015B NM: The method blank associated with preparation batch 880-1861 and analytical batch 880-1882 contained OII Range Organics (Over C28-C36) greater than one-half the reporting limit (RL). The samples were not re-analyzed because all samples were non detect in this range. The sample results have been qualified and reported.

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

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1940 and analytical batch 880-1999 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 08:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 08:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 08:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 08:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 08:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 08:19	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 08:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*04/16/21 10:29*	*04/17/21 08:19*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*04/16/21 10:29*	*04/17/21 08:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	49.9		mg/Kg		04/16/21 08:45	04/16/21 12:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 12:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 12:13	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*04/16/21 08:45*	*04/16/21 12:13*	*1*
o-Terphenyl	*75*		*70 - 130*	*04/16/21 08:45*	*04/16/21 12:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.1**		5.03		mg/Kg			04/20/21 14:57	1

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

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 08:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 08:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 08:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 08:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 08:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 08:45	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 08:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/16/21 10:29*	*04/17/21 08:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 13:17	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 13:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 13:17	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*04/16/21 08:45*	*04/16/21 13:17*	*1*
o-Terphenyl	*75*		*70 - 130*	*04/16/21 08:45*	*04/16/21 13:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.06**		5.05		mg/Kg			04/20/21 15:02	1

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

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 09:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 09:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 09:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 09:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 09:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 09:10	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 09:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 09:10*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/16/21 10:29*	*04/17/21 09:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/21 08:45	04/16/21 13:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/21 08:45	04/16/21 13:38	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 08:45	04/16/21 13:38	1
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 08:45	04/16/21 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*04/16/21 08:45*	*04/16/21 13:38*	*1*
o-Terphenyl	*70*		*70 - 130*	*04/16/21 08:45*	*04/16/21 13:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.13**		4.97		mg/Kg			04/20/21 15:07	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 09:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 09:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 09:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 09:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 09:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 09:35	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 09:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 09:35*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/16/21 10:29*	*04/17/21 09:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 14:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 14:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 14:00	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/16/21 08:45*	*04/16/21 14:00*	*1*
o-Terphenyl	*81*		*70 - 130*	*04/16/21 08:45*	*04/16/21 14:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		4.96		mg/Kg			04/19/21 10:36	1

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

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 10:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 10:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 10:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 10:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 10:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 10:01	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 10:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 10:01*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/16/21 10:29*	*04/17/21 10:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 14:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: H-5 (0"-6") Lab Sample ID: 880-1331-5
Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 14:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 14:21	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*04/16/21 08:45*	*04/16/21 14:21*	*1*
o-Terphenyl	*74*		*70 - 130*	*04/16/21 08:45*	*04/16/21 14:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		4.97		mg/Kg			04/19/21 10:41	1

Client Sample ID: H-6 (0"-6") Lab Sample ID: 880-1331-6
Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 11:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 11:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 11:44	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*04/16/21 10:29*	*04/17/21 11:44*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/16/21 10:29*	*04/17/21 11:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 14:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 14:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 14:42	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*04/16/21 08:45*	*04/16/21 14:42*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*04/16/21 08:45*	*04/16/21 14:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		5.00		mg/Kg			04/19/21 10:46	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: H-7 (0"-6") Lab Sample ID: 880-1331-7

Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 12:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 12:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 12:09	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*04/16/21 10:29*	*04/17/21 12:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/16/21 10:29*	*04/17/21 12:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:04	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*04/16/21 08:45*	*04/16/21 15:04*	*1*
o-Terphenyl	*81*		*70 - 130*	*04/16/21 08:45*	*04/16/21 15:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.4**		5.00		mg/Kg			04/19/21 10:51	1

Client Sample ID: H-8 (0"-6") Lab Sample ID: 880-1331-8

Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 12:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 12:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 12:35	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 12:35*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*04/16/21 10:29*	*04/17/21 12:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:25	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-8 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:25	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/16/21 08:45*	*04/16/21 15:25*	*1*
o-Terphenyl	*77*		*70 - 130*	*04/16/21 08:45*	*04/16/21 15:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.0**		4.95		mg/Kg			04/19/21 10:56	1

Client Sample ID: H-9 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 13:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 13:01	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 13:01*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/16/21 10:29*	*04/17/21 13:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:47	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/16/21 08:45*	*04/16/21 15:47*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/16/21 08:45*	*04/16/21 15:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.3**		5.02		mg/Kg			04/19/21 11:11	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-10 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 13:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 13:27	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 13:27*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/16/21 10:29*	*04/17/21 13:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/21 08:45	04/16/21 16:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/21 08:45	04/16/21 16:08	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 08:45	04/16/21 16:08	1
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 08:45	04/16/21 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*04/16/21 08:45*	*04/16/21 16:08*	*1*
o-Terphenyl	*72*		*70 - 130*	*04/16/21 08:45*	*04/16/21 16:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.6**		5.05		mg/Kg			04/19/21 11:16	1

Client Sample ID: H-11 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 13:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 13:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 13:52	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 13:52*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/16/21 10:29*	*04/17/21 13:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 16:57	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-11 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 16:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 16:57	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*04/16/21 08:45*	*04/16/21 16:57*	*1*
o-Terphenyl	*71*		*70 - 130*	*04/16/21 08:45*	*04/16/21 16:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.4**		5.04		mg/Kg			04/19/21 11:31	1

Client Sample ID: H-12 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 14:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 14:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 14:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 14:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 14:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 14:18	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 14:18*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/16/21 10:29*	*04/17/21 14:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 17:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 17:19	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*04/16/21 08:45*	*04/16/21 17:19*	*1*
o-Terphenyl	*70*		*70 - 130*	*04/16/21 08:45*	*04/16/21 17:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.5**		5.04		mg/Kg			04/19/21 11:37	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-13 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 14:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 14:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 14:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 14:44	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 10:29	04/17/21 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 14:44*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/16/21 10:29*	*04/17/21 14:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 17:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 17:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 17:40	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*04/16/21 08:45*	*04/16/21 17:40*	*1*
o-Terphenyl	*87*		*70 - 130*	*04/16/21 08:45*	*04/16/21 17:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.7**		4.97		mg/Kg			04/19/21 11:42	1

Client Sample ID: H-14 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 15:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 15:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 15:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 15:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 10:29	04/17/21 15:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 15:09	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 10:29	04/17/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 15:09*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/16/21 10:29*	*04/17/21 15:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 18:01	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: H-14 (0"-6")
Lab Sample ID: 880-1331-14
Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 18:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 18:01	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/16/21 08:45*	*04/16/21 18:01*	*1*
o-Terphenyl	*78*		*70 - 130*	*04/16/21 08:45*	*04/16/21 18:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		4.96		mg/Kg			04/19/21 11:47	1

Client Sample ID: H-15 (0"-6")
Lab Sample ID: 880-1331-15
Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 15:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 15:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 15:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 15:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 15:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 15:35	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 10:29	04/17/21 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/16/21 10:29*	*04/17/21 15:35*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*04/16/21 10:29*	*04/17/21 15:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 18:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 18:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 18:22	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:45	04/16/21 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*04/16/21 08:45*	*04/16/21 18:22*	*1*
o-Terphenyl	*76*		*70 - 130*	*04/16/21 08:45*	*04/16/21 18:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.6**		4.97		mg/Kg			04/19/21 11:52	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-16 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-16

Matrix: Solid

Method: 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		04/16/21 11:10	04/16/21 19:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 19:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 19:40	1
m-Xylene & p-Xylene	<0.00399	U F2	0.00399		mg/Kg		04/16/21 11:10	04/16/21 19:40	1
o-Xylene	<0.00200	U F2	0.00200		mg/Kg		04/16/21 11:10	04/16/21 19:40	1
Xylenes, Total	<0.00399	U F2	0.00399		mg/Kg		04/16/21 11:10	04/16/21 19:40	1
Total BTEX	<0.00399	U F2	0.00399		mg/Kg		04/16/21 11:10	04/16/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/16/21 11:10*	*04/16/21 19:40*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/16/21 11:10*	*04/16/21 19:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/21 08:45	04/16/21 18:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/21 08:45	04/16/21 18:44	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 08:45	04/16/21 18:44	1
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 08:45	04/16/21 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*04/16/21 08:45*	*04/16/21 18:44*	*1*
o-Terphenyl	*85*		*70 - 130*	*04/16/21 08:45*	*04/16/21 18:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.05**		4.98		mg/Kg			04/19/21 11:57	1

Client Sample ID: H-17 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 20:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 20:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 20:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/16/21 20:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 20:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/16/21 20:01	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/16/21 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*04/16/21 11:10*	*04/16/21 20:01*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/16/21 11:10*	*04/16/21 20:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:05	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: H-17 (0"-6")
Lab Sample ID: 880-1331-17
Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:05	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*04/16/21 08:45*	*04/16/21 19:05*	*1*
o-Terphenyl	*75*		*70 - 130*	*04/16/21 08:45*	*04/16/21 19:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.8**		5.00		mg/Kg			04/19/21 12:02	1

Client Sample ID: H-18 (0"-6")
Lab Sample ID: 880-1331-18
Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/16/21 20:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/16/21 20:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/16/21 20:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/16/21 20:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/16/21 20:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/16/21 20:22	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/16/21 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*04/16/21 11:10*	*04/16/21 20:22*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*04/16/21 11:10*	*04/16/21 20:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:26	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/16/21 08:45*	*04/16/21 19:26*	*1*
o-Terphenyl	*80*		*70 - 130*	*04/16/21 08:45*	*04/16/21 19:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.5**		5.03		mg/Kg			04/19/21 10:23	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-19 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/21 11:10	04/16/21 20:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/21 11:10	04/16/21 20:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/21 11:10	04/16/21 20:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/21 11:10	04/16/21 20:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/21 11:10	04/16/21 20:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/21 11:10	04/16/21 20:42	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/16/21 11:10	04/16/21 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/16/21 20:42*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/16/21 11:10*	*04/16/21 20:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:48	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*04/16/21 08:45*	*04/16/21 19:48*	*1*
o-Terphenyl	*71*		*70 - 130*	*04/16/21 08:45*	*04/16/21 19:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.2**		4.99		mg/Kg			04/19/21 10:38	1

Client Sample ID: H-20 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/16/21 21:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/16/21 21:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/16/21 21:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/16/21 11:10	04/16/21 21:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/16/21 21:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/16/21 11:10	04/16/21 21:03	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/16/21 11:10	04/16/21 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/16/21 11:10*	*04/16/21 21:03*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/16/21 11:10*	*04/16/21 21:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/21 08:45	04/16/21 20:09	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: H-20 (0"-6")
Lab Sample ID: 880-1331-20
Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/21 08:45	04/16/21 20:09	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 08:45	04/16/21 20:09	1
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 08:45	04/16/21 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*04/16/21 08:45*	*04/16/21 20:09*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/16/21 08:45*	*04/16/21 20:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.45**		4.96		mg/Kg			04/19/21 10:43	1

Client Sample ID: H-21 (0"-6")
Lab Sample ID: 880-1331-21
Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 21:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 21:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 21:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/16/21 21:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 21:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/16/21 21:24	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/16/21 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/16/21 11:10*	*04/16/21 21:24*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/16/21 11:10*	*04/16/21 21:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	49.9		mg/Kg		04/16/21 08:59	04/16/21 21:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 21:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 21:54	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*04/16/21 08:59*	*04/16/21 21:54*	*1*
o-Terphenyl	*82*		*70 - 130*	*04/16/21 08:59*	*04/16/21 21:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.4**		4.97		mg/Kg			04/19/21 10:48	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-22 (0"-6")

Lab Sample ID: 880-1331-22
Matrix: Solid
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00222**		0.00202		mg/Kg		04/16/21 11:10	04/16/21 21:44	1
Toluene	**0.00382**		0.00202		mg/Kg		04/16/21 11:10	04/16/21 21:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/16/21 21:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/16/21 11:10	04/16/21 21:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/16/21 21:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/16/21 11:10	04/16/21 21:44	1
Total BTEX	**0.00604**		0.00403		mg/Kg		04/16/21 11:10	04/16/21 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*185*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/16/21 21:44*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*04/16/21 11:10*	*04/16/21 21:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 22:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 22:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 22:58	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*04/16/21 08:59*	*04/16/21 22:58*	*1*
o-Terphenyl	*70*		*70 - 130*	*04/16/21 08:59*	*04/16/21 22:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.84**		4.99		mg/Kg			04/19/21 10:53	1

Client Sample ID: H-23 (0"-6")

Lab Sample ID: 880-1331-23
Matrix: Solid
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 22:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 22:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 22:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/16/21 22:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 22:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/16/21 22:05	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/16/21 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/16/21 11:10*	*04/16/21 22:05*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/16/21 11:10*	*04/16/21 22:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/21 08:59	04/16/21 23:19	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: H-23 (0"-6") Lab Sample ID: 880-1331-23

Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/21 08:59	04/16/21 23:19	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 08:59	04/16/21 23:19	1
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 08:59	04/16/21 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*04/16/21 08:59*	*04/16/21 23:19*	*1*
o-Terphenyl	*74*		*70 - 130*	*04/16/21 08:59*	*04/16/21 23:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		4.99		mg/Kg			04/19/21 11:09	1

Client Sample ID: H-24 (0"-6") Lab Sample ID: 880-1331-24

Date Collected: 04/08/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00379**		0.00201		mg/Kg		04/16/21 11:10	04/16/21 22:26	1
Toluene	**0.00456**		0.00201		mg/Kg		04/16/21 11:10	04/16/21 22:26	1
Ethylbenzene	**0.00218**		0.00201		mg/Kg		04/16/21 11:10	04/16/21 22:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/16/21 11:10	04/16/21 22:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/16/21 22:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/16/21 11:10	04/16/21 22:26	1
Total BTEX	**0.0105**		0.00402		mg/Kg		04/16/21 11:10	04/16/21 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/16/21 22:26*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*04/16/21 11:10*	*04/16/21 22:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 23:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 23:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 23:40	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/16/21 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*04/16/21 08:59*	*04/16/21 23:40*	*1*
o-Terphenyl	*72*		*70 - 130*	*04/16/21 08:59*	*04/16/21 23:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		4.98		mg/Kg			04/19/21 11:14	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-25 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/16/21 22:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/16/21 22:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/16/21 22:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/16/21 11:10	04/16/21 22:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/16/21 22:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/16/21 11:10	04/16/21 22:46	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/16/21 11:10	04/16/21 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/16/21 11:10*	*04/16/21 22:46*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/16/21 11:10*	*04/16/21 22:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:02	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*04/16/21 08:59*	*04/17/21 00:02*	*1*
o-Terphenyl	*73*		*70 - 130*	*04/16/21 08:59*	*04/17/21 00:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.7**		4.50		mg/Kg			04/19/21 11:19	1

Client Sample ID: H-26 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-26

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/17/21 00:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/17/21 00:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/17/21 00:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/16/21 11:10	04/17/21 00:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/16/21 11:10	04/17/21 00:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/16/21 11:10	04/17/21 00:11	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/16/21 11:10	04/17/21 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*176*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/17/21 00:11*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*04/16/21 11:10*	*04/17/21 00:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:23	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-26 (0"-6")

Lab Sample ID: 880-1331-26
Matrix: Solid
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:23	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*04/16/21 08:59*	*04/17/21 00:23*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*04/16/21 08:59*	*04/17/21 00:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.68**		4.95		mg/Kg			04/19/21 11:24	1

Client Sample ID: H-27 (0"-6")

Lab Sample ID: 880-1331-27
Matrix: Solid
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 00:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/17/21 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 00:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/17/21 00:32	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/17/21 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/16/21 11:10*	*04/17/21 00:32*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*04/16/21 11:10*	*04/17/21 00:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:44	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/16/21 08:59*	*04/17/21 00:44*	*1*
o-Terphenyl	*79*		*70 - 130*	*04/16/21 08:59*	*04/17/21 00:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.6**		5.00		mg/Kg			04/19/21 11:29	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-28 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-28

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 00:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 00:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 00:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/17/21 00:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 00:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/17/21 00:53	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/17/21 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/16/21 11:10*	*04/17/21 00:53*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*04/16/21 11:10*	*04/17/21 00:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 01:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 01:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 01:05	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*04/16/21 08:59*	*04/17/21 01:05*	*1*
o-Terphenyl	*71*		*70 - 130*	*04/16/21 08:59*	*04/17/21 01:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.98**		5.00		mg/Kg			04/19/21 11:34	1

Client Sample ID: H-29 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/17/21 01:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/17/21 01:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/17/21 01:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/17/21 01:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/17/21 01:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/17/21 01:13	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/17/21 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/17/21 01:13*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/16/21 11:10*	*04/17/21 01:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 01:27	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-29 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-29

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 01:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 01:27	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*04/16/21 08:59*	*04/17/21 01:27*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*04/16/21 08:59*	*04/17/21 01:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.4**		5.02		mg/Kg			04/19/21 11:49	1

Client Sample ID: H-30 (0"-6")

Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 01:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 01:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 01:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/17/21 01:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 01:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/17/21 01:34	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 11:10	04/17/21 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*187*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/17/21 01:34*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*04/16/21 11:10*	*04/17/21 01:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/21 08:59	04/17/21 01:48	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/21 08:59	04/17/21 01:48	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 08:59	04/17/21 01:48	1
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 08:59	04/17/21 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*04/16/21 08:59*	*04/17/21 01:48*	*1*
o-Terphenyl	*72*		*70 - 130*	*04/16/21 08:59*	*04/17/21 01:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.8**		5.02		mg/Kg			04/19/21 11:54	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/17/21 01:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/17/21 01:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/17/21 01:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/17/21 01:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 11:10	04/17/21 01:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/17/21 01:55	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 11:10	04/17/21 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/17/21 01:55*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/16/21 11:10*	*04/17/21 01:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 02:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 02:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 02:31	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/16/21 08:59*	*04/17/21 02:31*	*1*
o-Terphenyl	*80*		*70 - 130*	*04/16/21 08:59*	*04/17/21 02:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2720**		25.1		mg/Kg			04/20/21 09:13	5

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

Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-33

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/21 11:10	04/17/21 02:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/21 11:10	04/17/21 02:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/21 11:10	04/17/21 02:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/21 11:10	04/17/21 02:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/21 11:10	04/17/21 02:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/21 11:10	04/17/21 02:15	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/16/21 11:10	04/17/21 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/16/21 11:10*	*04/17/21 02:15*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*04/16/21 11:10*	*04/17/21 02:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 02:51	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-1331-33
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 02:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 02:51	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/16/21 08:59*	*04/17/21 02:51*	*1*
o-Terphenyl	*80*		*70 - 130*	*04/16/21 08:59*	*04/17/21 02:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		5.02		mg/Kg			04/19/21 12:15	1

Client Sample ID: AH-2 (0"-6")

Lab Sample ID: 880-1331-35
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 02:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 02:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 02:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/17/21 02:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/17/21 02:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/17/21 02:36	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 11:10	04/17/21 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*04/16/21 11:10*	*04/17/21 02:36*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/16/21 11:10*	*04/17/21 02:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 03:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 03:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 03:13	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*04/16/21 08:59*	*04/17/21 03:13*	*1*
o-Terphenyl	*79*		*70 - 130*	*04/16/21 08:59*	*04/17/21 03:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6110**		50.4		mg/Kg			04/19/21 12:20	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-1331-37
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00283**		0.00202		mg/Kg		04/16/21 11:10	04/17/21 02:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/17/21 02:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/17/21 02:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/16/21 11:10	04/17/21 02:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/21 11:10	04/17/21 02:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/16/21 11:10	04/17/21 02:57	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/16/21 11:10	04/17/21 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/17/21 02:57*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/16/21 11:10*	*04/17/21 02:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/17/21 03:34	1
Diesel Range Organics (Over C10-C28)	**61.3**		49.9		mg/Kg		04/16/21 08:59	04/17/21 03:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/17/21 03:34	1
Total TPH	**61.3**		49.9		mg/Kg		04/16/21 08:59	04/17/21 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*04/16/21 08:59*	*04/17/21 03:34*	*1*
o-Terphenyl	*77*		*70 - 130*	*04/16/21 08:59*	*04/17/21 03:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9170**		49.7		mg/Kg			04/19/21 12:25	10

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

Lab Sample ID: 880-1331-39
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12200**		99.2		mg/Kg			04/19/21 12:30	20

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

Lab Sample ID: 880-1331-41
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8110**		99.8		mg/Kg			04/19/21 12:35	20

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

Lab Sample ID: 880-1331-43
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5300**		49.8		mg/Kg			04/19/21 12:40	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-3 (0"-6")

Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-45

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 11:01	04/19/21 20:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 11:01	04/19/21 20:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 11:01	04/19/21 20:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/21 11:01	04/19/21 20:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 11:01	04/19/21 20:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/21 11:01	04/19/21 20:10	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/19/21 11:01	04/19/21 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/19/21 11:01*	*04/19/21 20:10*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/19/21 11:01*	*04/19/21 20:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/17/21 03:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/17/21 03:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/17/21 03:55	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 08:59	04/17/21 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*04/16/21 08:59*	*04/17/21 03:55*	*1*
o-Terphenyl	*87*		*70 - 130*	*04/16/21 08:59*	*04/17/21 03:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7300**		49.9		mg/Kg			04/22/21 10:12	10

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

Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-47

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/16/21 14:49	04/17/21 13:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/16/21 14:49	04/17/21 13:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/21 14:49	04/17/21 13:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/16/21 14:49	04/17/21 13:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/21 14:49	04/17/21 13:14	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/16/21 14:49	04/17/21 13:14	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		04/16/21 14:49	04/17/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/16/21 14:49*	*04/17/21 13:14*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/16/21 14:49*	*04/17/21 13:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/21 08:59	04/17/21 04:16	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-1331-47
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/21 08:59	04/17/21 04:16	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 08:59	04/17/21 04:16	1
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 08:59	04/17/21 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*04/16/21 08:59*	*04/17/21 04:16*	*1*
o-Terphenyl	*83*		*70 - 130*	*04/16/21 08:59*	*04/17/21 04:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9060**		50.5		mg/Kg			04/22/21 10:35	10

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

Lab Sample ID: 880-1331-49
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5880**		50.2		mg/Kg			04/22/21 10:42	10

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

Lab Sample ID: 880-1331-51
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**425**		4.98		mg/Kg			04/22/21 10:50	1

Client Sample ID: AH-4 (0"-6")

Lab Sample ID: 880-1331-53
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 14:49	04/17/21 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 14:49	04/17/21 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 14:49	04/17/21 13:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 14:49	04/17/21 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 14:49	04/17/21 13:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 14:49	04/17/21 13:35	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 14:49	04/17/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/16/21 14:49*	*04/17/21 13:35*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/16/21 14:49*	*04/17/21 13:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 04:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 04:38	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-4 (0"-6") Lab Sample ID: 880-1331-53

Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 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)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 04:38	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*04/16/21 08:59*	*04/17/21 04:38*	*1*
o-Terphenyl	*92*		*70 - 130*	*04/16/21 08:59*	*04/17/21 04:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6900**		49.7		mg/Kg			04/22/21 10:58	10

Client Sample ID: AH-5 (0"-6") Lab Sample ID: 880-1331-54

Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 14:49	04/17/21 13:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 14:49	04/17/21 13:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 14:49	04/17/21 13:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 14:49	04/17/21 13:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 14:49	04/17/21 13:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 14:49	04/17/21 13:55	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 14:49	04/17/21 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/16/21 14:49*	*04/17/21 13:55*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/16/21 14:49*	*04/17/21 13:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 04:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 04:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 04:59	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*04/16/21 08:59*	*04/17/21 04:59*	*1*
o-Terphenyl	*88*		*70 - 130*	*04/16/21 08:59*	*04/17/21 04:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7590**		50.1		mg/Kg			04/20/21 12:48	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-1331-56
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 14:49	04/17/21 14:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 14:49	04/17/21 14:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 14:49	04/17/21 14:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 14:49	04/17/21 14:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 14:49	04/17/21 14:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 14:49	04/17/21 14:15	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 14:49	04/17/21 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/16/21 14:49*	*04/17/21 14:15*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/16/21 14:49*	*04/17/21 14:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 05:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 05:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 05:20	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/17/21 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*04/16/21 08:59*	*04/17/21 05:20*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/16/21 08:59*	*04/17/21 05:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8380**		49.7		mg/Kg			04/20/21 13:04	10

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

Lab Sample ID: 880-1331-58
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6920**		49.8		mg/Kg			04/20/21 13:10	10

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

Lab Sample ID: 880-1331-60
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**410**		5.02		mg/Kg			04/20/21 13:15	1

Client Sample ID: AH-6 (0"-6")

Lab Sample ID: 880-1331-62
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 14:49	04/17/21 14:36	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-6 (0"-6")
Lab Sample ID: 880-1331-62
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 14:49	04/17/21 14:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 14:49	04/17/21 14:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 14:49	04/17/21 14:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 14:49	04/17/21 14:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 14:49	04/17/21 14:36	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 14:49	04/17/21 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*04/16/21 14:49*	*04/17/21 14:36*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/16/21 14:49*	*04/17/21 14:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/21 08:59	04/17/21 05:41	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/21 08:59	04/17/21 05:41	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 08:59	04/17/21 05:41	1
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 08:59	04/17/21 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/16/21 08:59*	*04/17/21 05:41*	*1*
o-Terphenyl	*78*		*70 - 130*	*04/16/21 08:59*	*04/17/21 05:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7750**		50.2		mg/Kg			04/20/21 13:21	10

Client Sample ID: AH-6 (1'-1.5')
Lab Sample ID: 880-1331-64
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/16/21 15:25	04/19/21 16:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/16/21 15:25	04/19/21 16:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/16/21 15:25	04/19/21 16:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/16/21 15:25	04/19/21 16:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/16/21 15:25	04/19/21 16:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/16/21 15:25	04/19/21 16:43	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/16/21 15:25	04/19/21 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/16/21 15:25*	*04/19/21 16:43*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/16/21 15:25*	*04/19/21 16:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 15:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 15:09	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-6 (1'-1.5') Lab Sample ID: 880-1331-64
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 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)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 15:09	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/16/21 09:17*	*04/16/21 15:09*	*1*
o-Terphenyl	*100*		*70 - 130*	*04/16/21 09:17*	*04/16/21 15:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8230**		49.9		mg/Kg			04/20/21 13:37	10

Client Sample ID: AH-6 (2'-2.5') Lab Sample ID: 880-1331-66
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8470**		49.6		mg/Kg			04/20/21 13:43	10

Client Sample ID: AH-6 (3'-3.5) Lab Sample ID: 880-1331-68
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9620**		50.3		mg/Kg			04/20/21 13:48	10

Client Sample ID: AH-6 (4'-4.5') Lab Sample ID: 880-1331-70
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6840**		50.5		mg/Kg			04/20/21 13:54	10

Client Sample ID: AH-7 (0"-6") Lab Sample ID: 880-1331-72
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 15:25	04/19/21 17:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 15:25	04/19/21 17:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 15:25	04/19/21 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 15:25	04/19/21 17:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 15:25	04/19/21 17:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 15:25	04/19/21 17:12	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 15:25	04/19/21 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/16/21 15:25*	*04/19/21 17:12*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/16/21 15:25*	*04/19/21 17:12*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-7 (0"-6")

Lab Sample ID: 880-1331-72
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 16:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 16:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 16:14	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*04/16/21 09:17*	*04/16/21 16:14*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/16/21 09:17*	*04/16/21 16:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90400**		547		mg/Kg			04/20/21 14:00	110

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

Lab Sample ID: 880-1331-74
Matrix: Solid
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/21 15:25	04/19/21 18:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/21 15:25	04/19/21 18:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/21 15:25	04/19/21 18:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/21 15:25	04/19/21 18:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/21 15:25	04/19/21 18:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/21 15:25	04/19/21 18:36	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/16/21 15:25	04/19/21 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/16/21 15:25*	*04/19/21 18:36*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/16/21 15:25*	*04/19/21 18:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/21 09:17	04/16/21 16:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/21 09:17	04/16/21 16:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 09:17	04/16/21 16:36	1
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 09:17	04/16/21 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*04/16/21 09:17*	*04/16/21 16:36*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/16/21 09:17*	*04/16/21 16:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10400**		49.9		mg/Kg			04/20/21 14:05	10

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-7 (2'-2.5') Lab Sample ID: 880-1331-76
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		24.8		mg/Kg			04/20/21 14:22	5

Client Sample ID: AH-7 (3'-3.5) Lab Sample ID: 880-1331-78
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		24.8		mg/Kg			04/20/21 14:27	5

Client Sample ID: AH-8 (0"-6") Lab Sample ID: 880-1331-80
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 18:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 18:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/21 15:25	04/19/21 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 18:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/21 15:25	04/19/21 18:56	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/16/21 15:25	04/19/21 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/16/21 15:25*	*04/19/21 18:56*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/16/21 15:25*	*04/19/21 18:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 16:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 16:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 16:58	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*04/16/21 09:17*	*04/16/21 16:58*	*1*
o-Terphenyl	*104*		*70 - 130*	*04/16/21 09:17*	*04/16/21 16:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8310		49.9		mg/Kg			04/20/21 14:44	10

Client Sample ID: AH-8 (1'-1.5') Lab Sample ID: 880-1331-82
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 19:17	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-8 (1'-1.5')
Lab Sample ID: 880-1331-82
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 19:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 19:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 15:25	04/19/21 19:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 19:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 15:25	04/19/21 19:17	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 15:25	04/19/21 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/16/21 15:25*	*04/19/21 19:17*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*04/16/21 15:25*	*04/19/21 19:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 17:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 17:19	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*04/16/21 09:17*	*04/16/21 17:19*	*1*
o-Terphenyl	*106*		*70 - 130*	*04/16/21 09:17*	*04/16/21 17:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11300**		99.6		mg/Kg			04/20/21 14:49	20

Client Sample ID: AH-8 (2'-2.5')
Lab Sample ID: 880-1331-84
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10400**		49.9		mg/Kg			04/19/21 16:03	10

Client Sample ID: AH-8 (3'-3.5)
Lab Sample ID: 880-1331-86
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6240**		49.6		mg/Kg			04/19/21 16:20	10

Client Sample ID: AH-8 (4'-4.5')
Lab Sample ID: 880-1331-88
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**792**		4.95		mg/Kg			04/19/21 16:26	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-9 (0"-6")

Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-90

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/16/21 15:25	04/19/21 19:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/16/21 15:25	04/19/21 19:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/21 15:25	04/19/21 19:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/16/21 15:25	04/19/21 19:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/21 15:25	04/19/21 19:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/16/21 15:25	04/19/21 19:38	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/16/21 15:25	04/19/21 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/16/21 15:25*	*04/19/21 19:38*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/16/21 15:25*	*04/19/21 19:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 17:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 17:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 17:41	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*04/16/21 09:17*	*04/16/21 17:41*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/16/21 09:17*	*04/16/21 17:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12900**		101		mg/Kg			04/19/21 16:31	20

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

Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-92

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 19:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 19:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 19:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/21 15:25	04/19/21 19:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 19:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/21 15:25	04/19/21 19:58	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/16/21 15:25	04/19/21 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/16/21 15:25*	*04/19/21 19:58*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*04/16/21 15:25*	*04/19/21 19:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:02	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-9 (1'-1.5') Lab Sample ID: 880-1331-92
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:02	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*04/16/21 09:17*	*04/16/21 18:02*	*1*
o-Terphenyl	*104*		*70 - 130*	*04/16/21 09:17*	*04/16/21 18:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18100**		100		mg/Kg			04/20/21 09:02	20

Client Sample ID: AH-9 (2'-2.5') Lab Sample ID: 880-1331-94
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7770**		50.2		mg/Kg			04/19/21 16:53	10

Client Sample ID: AH-9 (3'-3.5) Lab Sample ID: 880-1331-96
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4480**		49.8		mg/Kg			04/19/21 16:59	10

Client Sample ID: AH-9 (4'-4.5') Lab Sample ID: 880-1331-98
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2900**		25.2		mg/Kg			04/19/21 17:04	5

Client Sample ID: AH-10 (0"-6") Lab Sample ID: 880-1331-99
Date Collected: 04/09/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 20:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 20:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 20:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/21 15:25	04/19/21 20:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 20:19	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/21 15:25	04/19/21 20:19	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/16/21 15:25	04/19/21 20:19	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-10 (0"-6")

Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-99

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/16/21 15:25	04/19/21 20:19	1
1,4-Difluorobenzene (Surr)	113		70 - 130	04/16/21 15:25	04/19/21 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:24	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	04/16/21 09:17	04/16/21 18:24	1
o-Terphenyl	107		70 - 130	04/16/21 09:17	04/16/21 18:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9230		49.8		mg/Kg			04/19/21 17:10	10

Client Sample ID: AH-10 (1'-1.5')

Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-101

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 20:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 20:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 20:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/21 15:25	04/19/21 20:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 20:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/21 15:25	04/19/21 20:40	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/16/21 15:25	04/19/21 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	04/16/21 15:25	04/19/21 20:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/16/21 15:25	04/19/21 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:46	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	04/16/21 09:17	04/16/21 18:46	1
o-Terphenyl	106		70 - 130	04/16/21 09:17	04/16/21 18:46	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-10 (1'-1.5')
Lab Sample ID: 880-1331-101
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13200		99.6		mg/Kg			04/19/21 17:15	20

Client Sample ID: AH-10 (2'-2.5')
Lab Sample ID: 880-1331-103
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5800		50.5		mg/Kg			04/19/21 17:21	10

Client Sample ID: AH-10 (3'-3.5')
Lab Sample ID: 880-1331-105
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3950		49.8		mg/Kg			04/19/21 17:38	10

Client Sample ID: AH-10 (4'-4.5')
Lab Sample ID: 880-1331-107
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		25.0		mg/Kg			04/19/21 17:43	5

Client Sample ID: AH-11 (0"-6")
Lab Sample ID: 880-1331-109
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/21 15:25	04/19/21 21:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/21 15:25	04/19/21 21:00	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/16/21 15:25	04/19/21 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/16/21 15:25*	*04/19/21 21:00*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*04/16/21 15:25*	*04/19/21 21:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/21 09:17	04/16/21 19:07	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/21 09:17	04/16/21 19:07	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 09:17	04/16/21 19:07	1
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 09:17	04/16/21 19:07	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-11 (0"-6")

Lab Sample ID: 880-1331-109
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	04/16/21 09:17	04/16/21 19:07	1
o-Terphenyl	102		70 - 130	04/16/21 09:17	04/16/21 19:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3780		24.8		mg/Kg			04/19/21 18:00	5

Client Sample ID: AH-11 (1'-1.5')

Lab Sample ID: 880-1331-111
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:21	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/16/21 15:25	04/19/21 21:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:21	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/16/21 15:25	04/19/21 21:21	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		04/16/21 15:25	04/19/21 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	04/16/21 15:25	04/19/21 21:21	1
1,4-Difluorobenzene (Surr)	112		70 - 130	04/16/21 15:25	04/19/21 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 19:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 19:50	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/16/21 09:17	04/16/21 19:50	1
o-Terphenyl	98		70 - 130	04/16/21 09:17	04/16/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10400		50.0		mg/Kg			04/19/21 18:05	10

Client Sample ID: AH-11 (2'-2.5')

Lab Sample ID: 880-1331-113
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8740		50.0		mg/Kg			04/19/21 18:11	10

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-11 (3.-3.5') Lab Sample ID: 880-1331-115
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6740		49.7		mg/Kg			04/19/21 18:16	10

Client Sample ID: AH-12 (0"-6") Lab Sample ID: 880-1331-118
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/16/21 15:25	04/19/21 21:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/21 15:25	04/19/21 21:42	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/16/21 15:25	04/19/21 21:42	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		04/16/21 15:25	04/19/21 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/16/21 15:25*	*04/19/21 21:42*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/16/21 15:25*	*04/19/21 21:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 20:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 20:12	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/16/21 09:17*	*04/16/21 20:12*	*1*
o-Terphenyl	*97*		*70 - 130*	*04/16/21 09:17*	*04/16/21 20:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		4.99		mg/Kg			04/19/21 18:22	1

Client Sample ID: AH-14 (0"-6") Lab Sample ID: 880-1331-122
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1	0.00198		mg/Kg		04/19/21 10:02	04/20/21 19:27	1
Toluene	<0.00198	U F2 F1	0.00198		mg/Kg		04/19/21 10:02	04/20/21 19:27	1
Ethylbenzene	<0.00198	U F2 F1	0.00198		mg/Kg		04/19/21 10:02	04/20/21 19:27	1
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.00397		mg/Kg		04/19/21 10:02	04/20/21 19:27	1
o-Xylene	<0.00198	U F2 F1	0.00198		mg/Kg		04/19/21 10:02	04/20/21 19:27	1
Xylenes, Total	<0.00397	U F2 F1	0.00397		mg/Kg		04/19/21 10:02	04/20/21 19:27	1
Total BTEX	<0.00397	U F2 F1	0.00397		mg/Kg		04/19/21 10:02	04/20/21 19:27	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-14 (0"-6")

Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-122
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	04/19/21 10:02	04/20/21 19:27	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/19/21 10:02	04/20/21 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 20:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 20:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 20:33	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	04/16/21 09:17	04/16/21 20:33	1
o-Terphenyl	102		70 - 130	04/16/21 09:17	04/16/21 20:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.6		4.95		mg/Kg			04/19/21 18:27	1

Client Sample ID: AH-14 (1'-1.5')

Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-124
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/20/21 19:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/20/21 19:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/20/21 19:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/19/21 10:02	04/20/21 19:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/20/21 19:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/19/21 10:02	04/20/21 19:53	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		04/19/21 10:02	04/20/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/19/21 10:02	04/20/21 19:53	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/19/21 10:02	04/20/21 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 20:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 20:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 20:55	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/16/21 09:17	04/16/21 20:55	1
o-Terphenyl	101		70 - 130	04/16/21 09:17	04/16/21 20:55	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-14 (1'-1.5') Lab Sample ID: 880-1331-124
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.0**		5.00		mg/Kg			04/19/21 18:33	1

Client Sample ID: AH-15 (0"-6") Lab Sample ID: 880-1331-126
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 20:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 20:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 20:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 20:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 20:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 20:19	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*04/19/21 10:02*	*04/20/21 20:19*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*04/19/21 10:02*	*04/20/21 20:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 21:16	1
Diesel Range Organics (Over C10-C28)	**60.6**		49.9		mg/Kg		04/16/21 09:17	04/16/21 21:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:17	04/16/21 21:16	1
Total TPH	**60.6**		49.9		mg/Kg		04/16/21 09:17	04/16/21 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*60*	*S1-*	*70 - 130*	*04/16/21 09:17*	*04/16/21 21:16*	*1*
o-Terphenyl	*101*		*70 - 130*	*04/16/21 09:17*	*04/16/21 21:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.7**		4.96		mg/Kg			04/19/21 14:52	1

Client Sample ID: AH-15 (1'-1.5') Lab Sample ID: 880-1331-128
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 20:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 20:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 20:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/20/21 20:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 20:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/20/21 20:44	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/20/21 20:44	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-15 (1'-1.5')

Lab Sample ID: 880-1331-128
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	04/19/21 10:02	04/20/21 20:44	1
1,4-Difluorobenzene (Surr)	113		70 - 130	04/19/21 10:02	04/20/21 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/21 09:17	04/16/21 21:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/21 09:17	04/16/21 21:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 09:17	04/16/21 21:37	1
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 09:17	04/16/21 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/16/21 09:17	04/16/21 21:37	1
o-Terphenyl	102		70 - 130	04/16/21 09:17	04/16/21 21:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.2		5.04		mg/Kg			04/19/21 15:07	1

Client Sample ID: AH-16 (0"-6")

Lab Sample ID: 880-1331-129
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 21:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 21:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 21:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 21:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 21:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 21:10	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	04/19/21 10:02	04/20/21 21:10	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/19/21 10:02	04/20/21 21:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 21:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 21:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 21:59	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	04/16/21 09:17	04/16/21 21:59	1
o-Terphenyl	105		70 - 130	04/16/21 09:17	04/16/21 21:59	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-16 (0"-6")
Lab Sample ID: 880-1331-129
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.8		5.02		mg/Kg			04/19/21 15:12	1

Client Sample ID: AH-17 (0"-6")
Lab Sample ID: 880-1331-131
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/20/21 21:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/20/21 21:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/20/21 21:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/19/21 10:02	04/20/21 21:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/20/21 21:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/19/21 10:02	04/20/21 21:36	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/19/21 10:02	04/20/21 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*04/19/21 10:02*	*04/20/21 21:36*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/19/21 10:02*	*04/20/21 21:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 22:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 22:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 22:20	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*04/16/21 09:17*	*04/16/21 22:20*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/16/21 09:17*	*04/16/21 22:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7040		49.8		mg/Kg			04/19/21 15:18	10

Client Sample ID: AH-17 (1'-1.5')
Lab Sample ID: 880-1331-133
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 22:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 22:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 22:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/19/21 10:02	04/20/21 22:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 22:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/19/21 10:02	04/20/21 22:01	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/19/21 10:02	04/20/21 22:01	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-17 (1'-1.5')

Lab Sample ID: 880-1331-133
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	04/19/21 10:02	04/20/21 22:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/19/21 10:02	04/20/21 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 22:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 22:41	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	04/16/21 09:17	04/16/21 22:41	1
o-Terphenyl	102		70 - 130	04/16/21 09:17	04/16/21 22:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1800		25.0		mg/Kg			04/19/21 15:23	5

Client Sample ID: AH-18 (0"-6")

Lab Sample ID: 880-1331-135
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 22:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 22:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 22:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 22:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/20/21 22:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 22:27	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/20/21 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	04/19/21 10:02	04/20/21 22:27	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/19/21 10:02	04/20/21 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/21 09:17	04/16/21 23:03	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/21 09:17	04/16/21 23:03	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 09:17	04/16/21 23:03	1
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 09:17	04/16/21 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/16/21 09:17	04/16/21 23:03	1
o-Terphenyl	96		70 - 130	04/16/21 09:17	04/16/21 23:03	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-18 (0"-6")
Lab Sample ID: 880-1331-135
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		5.00		mg/Kg			04/19/21 15:38	1

Client Sample ID: AH-19 (0"-6")
Lab Sample ID: 880-1331-137
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/20/21 22:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/20/21 22:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/20/21 22:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/19/21 10:02	04/20/21 22:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/20/21 22:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/19/21 10:02	04/20/21 22:53	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		04/19/21 10:02	04/20/21 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*04/19/21 10:02*	*04/20/21 22:53*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/19/21 10:02*	*04/20/21 22:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 15:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 15:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 15:09	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/16/21 09:31*	*04/16/21 15:09*	*1*
o-Terphenyl	*82*		*70 - 130*	*04/16/21 09:31*	*04/16/21 15:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.7		5.00		mg/Kg			04/19/21 15:43	1

Client Sample ID: AH-20 (0"-6")
Lab Sample ID: 880-1331-139
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 23:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 23:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 23:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/19/21 10:02	04/20/21 23:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 23:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/19/21 10:02	04/20/21 23:19	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/19/21 10:02	04/20/21 23:19	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-20 (0"-6")

Lab Sample ID: 880-1331-139
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	04/19/21 10:02	04/20/21 23:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/19/21 10:02	04/20/21 23:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 16:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 16:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 16:14	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	04/16/21 09:31	04/16/21 16:14	1
o-Terphenyl	83		70 - 130	04/16/21 09:31	04/16/21 16:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	696		5.00		mg/Kg			04/19/21 15:48	1

Client Sample ID: AH-20 (1'-1.5')

Lab Sample ID: 880-1331-141
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/21/21 01:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/21/21 01:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/21/21 01:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/19/21 10:02	04/21/21 01:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/21/21 01:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/19/21 10:02	04/21/21 01:02	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/19/21 10:02	04/21/21 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	04/19/21 10:02	04/21/21 01:02	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/19/21 10:02	04/21/21 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/21 09:31	04/16/21 16:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/21 09:31	04/16/21 16:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 09:31	04/16/21 16:36	1
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 09:31	04/16/21 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	04/16/21 09:31	04/16/21 16:36	1
o-Terphenyl	83		70 - 130	04/16/21 09:31	04/16/21 16:36	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-20 (1'-1.5')
Lab Sample ID: 880-1331-141
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6960		50.4		mg/Kg			04/19/21 15:53	10

Client Sample ID: AH-20 (2'-2.5')
Lab Sample ID: 880-1331-143
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		24.8		mg/Kg			04/19/21 15:58	5

Client Sample ID: AH-20 (3'-3.5')
Lab Sample ID: 880-1331-145
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	891	F1	4.95		mg/Kg			04/19/21 16:03	1

Client Sample ID: AH-20 (4'-4.5')
Lab Sample ID: 880-1331-147
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	506		5.04		mg/Kg			04/19/21 16:19	1

Client Sample ID: AH-21 (0"-6")
Lab Sample ID: 880-1331-149
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 01:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 01:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 01:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/21/21 01:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 01:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/21/21 01:28	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/21/21 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*04/19/21 10:02*	*04/21/21 01:28*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/19/21 10:02*	*04/21/21 01:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 16:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 16:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 16:58	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 16:58	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-21 (0"-6")

Lab Sample ID: 880-1331-149
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/16/21 09:31	04/16/21 16:58	1
o-Terphenyl	96		70 - 130	04/16/21 09:31	04/16/21 16:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12500		101		mg/Kg			04/19/21 16:24	20

Client Sample ID: AH-21 (1'-1.5')

Lab Sample ID: 880-1331-151
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/21/21 01:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/21/21 01:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/21/21 01:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/19/21 10:02	04/21/21 01:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/19/21 10:02	04/21/21 01:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/19/21 10:02	04/21/21 01:54	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/19/21 10:02	04/21/21 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	04/19/21 10:02	04/21/21 01:54	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/19/21 10:02	04/21/21 01:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 17:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 17:19	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	04/16/21 09:31	04/16/21 17:19	1
o-Terphenyl	83		70 - 130	04/16/21 09:31	04/16/21 17:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5620		49.7		mg/Kg			04/19/21 16:39	10

Client Sample ID: AH-21 (2'-2.5')

Lab Sample ID: 880-1331-153
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6470		49.9		mg/Kg			04/19/21 16:44	10

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-21 (3'-3.5')
Lab Sample ID: 880-1331-155
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8250		49.8		mg/Kg			04/19/21 16:49	10

Client Sample ID: AH-21 (4'-4.5')
Lab Sample ID: 880-1331-157
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5950		50.0		mg/Kg			04/19/21 16:54	10

Client Sample ID: AH-22 (0"-6')
Lab Sample ID: 880-1331-159
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 02:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 02:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 02:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 02:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 02:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 02:19	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*70 - 130*	*04/19/21 10:02*	*04/21/21 02:19*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/19/21 10:02*	*04/21/21 02:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 17:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 17:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 17:41	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*04/16/21 09:31*	*04/16/21 17:41*	*1*
o-Terphenyl	*84*		*70 - 130*	*04/16/21 09:31*	*04/16/21 17:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7370		50.0		mg/Kg			04/19/21 20:24	10

Client Sample ID: AH-22 (1'-1.5')
Lab Sample ID: 880-1331-161
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/21/21 02:45	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-22 (1'-1.5') Lab Sample ID: 880-1331-161
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/21/21 02:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/21/21 02:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/21/21 02:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/21 10:02	04/21/21 02:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/21/21 02:45	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/19/21 10:02	04/21/21 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*04/19/21 10:02*	*04/21/21 02:45*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*04/19/21 10:02*	*04/21/21 02:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:02	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*04/16/21 09:31*	*04/16/21 18:02*	*1*
o-Terphenyl	*83*		*70 - 130*	*04/16/21 09:31*	*04/16/21 18:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**292**		5.04		mg/Kg			04/19/21 17:01	1

Client Sample ID: AH-22 (2'-2.5') Lab Sample ID: 880-1331-163
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**204**		5.05		mg/Kg			04/19/21 17:06	1

Client Sample ID: AH-22 (3'-3.5') Lab Sample ID: 880-1331-165
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		5.00		mg/Kg			04/19/21 18:02	1

Client Sample ID: AH-23 (0"-6") Lab Sample ID: 880-1331-166
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 03:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 03:11	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-23 (0"-6")

Lab Sample ID: 880-1331-166
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 03:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/19/21 10:02	04/21/21 03:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 03:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/19/21 10:02	04/21/21 03:11	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/19/21 10:02	04/21/21 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*04/19/21 10:02*	*04/21/21 03:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*04/19/21 10:02*	*04/21/21 03:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:24	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/16/21 09:31*	*04/16/21 18:24*	*1*
o-Terphenyl	*84*		*70 - 130*	*04/16/21 09:31*	*04/16/21 18:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8680**		49.6		mg/Kg			04/19/21 18:17	10

Client Sample ID: AH-24 (0"-6")

Lab Sample ID: 880-1331-167
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 03:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 03:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 03:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/21/21 03:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/21/21 03:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/21/21 03:37	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/19/21 10:02	04/21/21 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*04/19/21 10:02*	*04/21/21 03:37*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/19/21 10:02*	*04/21/21 03:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:46	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-24 (0"-6")

Lab Sample ID: 880-1331-167
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/16/21 09:31*	*04/16/21 18:46*	*1*
o-Terphenyl	*91*		*70 - 130*	*04/16/21 09:31*	*04/16/21 18:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2370**		24.8		mg/Kg			04/19/21 18:22	5

Client Sample ID: AH-24 (1'-1.5')

Lab Sample ID: 880-1331-169
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/21/21 04:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/21/21 04:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/21/21 04:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/19/21 10:02	04/21/21 04:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/19/21 10:02	04/21/21 04:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/19/21 10:02	04/21/21 04:03	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/19/21 10:02	04/21/21 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*04/19/21 10:02*	*04/21/21 04:03*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/19/21 10:02*	*04/21/21 04:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/21 09:31	04/16/21 19:07	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/21 09:31	04/16/21 19:07	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 09:31	04/16/21 19:07	1
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 09:31	04/16/21 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/16/21 09:31*	*04/16/21 19:07*	*1*
o-Terphenyl	*84*		*70 - 130*	*04/16/21 09:31*	*04/16/21 19:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		5.05		mg/Kg			04/19/21 18:27	1

Client Sample ID: AH-24 (2'-2.5')

Lab Sample ID: 880-1331-171
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**266**		4.98		mg/Kg			04/19/21 18:32	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-25 (0"-6")

Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-172

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 04:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 04:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 04:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 04:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 04:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 04:29	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*04/19/21 10:02*	*04/21/21 04:29*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/19/21 10:02*	*04/21/21 04:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 19:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 19:50	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/16/21 09:31*	*04/16/21 19:50*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/16/21 09:31*	*04/16/21 19:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.3**		5.00		mg/Kg			04/19/21 18:47	1

Client Sample ID: AH-26 (0"-6")

Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-174

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 04:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 04:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 04:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 04:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/19/21 10:02	04/21/21 04:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 04:55	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/19/21 10:02	04/21/21 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*04/19/21 10:02*	*04/21/21 04:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/19/21 10:02*	*04/21/21 04:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 20:12	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-26 (0"-6") Lab Sample ID: 880-1331-174

Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 20:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 20:12	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*04/16/21 09:31*	*04/16/21 20:12*	*1*
o-Terphenyl	*82*		*70 - 130*	*04/16/21 09:31*	*04/16/21 20:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6930**		50.0		mg/Kg			04/19/21 18:53	10

Client Sample ID: AH-26 (1'-1.5') Lab Sample ID: 880-1331-176

Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202		mg/Kg		04/19/21 13:30	04/20/21 13:48	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		04/19/21 13:30	04/20/21 13:48	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		04/19/21 13:30	04/20/21 13:48	1
m-Xylene & p-Xylene	<0.00404	U F1	0.00404		mg/Kg		04/19/21 13:30	04/20/21 13:48	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		04/19/21 13:30	04/20/21 13:48	1
Xylenes, Total	<0.00404	U F1	0.00404		mg/Kg		04/19/21 13:30	04/20/21 13:48	1
Total BTEX	<0.00404	U F2 F1	0.00404		mg/Kg		04/19/21 13:30	04/20/21 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/19/21 13:30*	*04/20/21 13:48*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/19/21 13:30*	*04/20/21 13:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 20:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 20:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 20:33	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*04/16/21 09:31*	*04/16/21 20:33*	*1*
o-Terphenyl	*86*		*70 - 130*	*04/16/21 09:31*	*04/16/21 20:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7870**		50.2		mg/Kg			04/19/21 18:58	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-26 (2'-2.5')

Lab Sample ID: 880-1331-178
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7780		50.3		mg/Kg			04/19/21 19:03	10

Client Sample ID: AH-27 (0"-6")

Lab Sample ID: 880-1331-179
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 14:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 14:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 14:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 14:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 14:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 14:08	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/19/21 13:30*	*04/20/21 14:08*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/19/21 13:30*	*04/20/21 14:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 20:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 20:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 20:55	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*04/16/21 09:31*	*04/16/21 20:55*	*1*
o-Terphenyl	*97*		*70 - 130*	*04/16/21 09:31*	*04/16/21 20:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4110		25.0		mg/Kg			04/19/21 19:08	5

Client Sample ID: AH-27 (1'-1.5')

Lab Sample ID: 880-1331-181
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 14:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 14:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 14:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 14:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 14:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 14:28	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 14:28	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-27 (1'-1.5') Lab Sample ID: 880-1331-181
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/19/21 13:30	04/20/21 14:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/19/21 13:30	04/20/21 14:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 21:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 21:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 21:16	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 09:31	04/16/21 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	04/16/21 09:31	04/16/21 21:16	1
o-Terphenyl	83		70 - 130	04/16/21 09:31	04/16/21 21:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5180		24.8		mg/Kg			04/19/21 19:13	5

Client Sample ID: AH-27 (2'-2.5') Lab Sample ID: 880-1331-183
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6880		50.3		mg/Kg			04/19/21 19:28	10

Client Sample ID: AH-27 (3'-3.5') Lab Sample ID: 880-1331-185
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9710		50.0		mg/Kg			04/19/21 19:33	10

Client Sample ID: AH-27 (4'-4.5') Lab Sample ID: 880-1331-187
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9280		49.7		mg/Kg			04/19/21 19:49	10

Client Sample ID: AH-28 (0"-6") Lab Sample ID: 880-1331-189
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/21 13:30	04/20/21 14:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/21 13:30	04/20/21 14:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/21 13:30	04/20/21 14:49	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-28 (0"-6") Lab Sample ID: 880-1331-189

Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/21 13:30	04/20/21 14:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/21 13:30	04/20/21 14:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/21 13:30	04/20/21 14:49	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/19/21 13:30	04/20/21 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/19/21 13:30*	*04/20/21 14:49*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/19/21 13:30*	*04/20/21 14:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/21 09:31	04/16/21 21:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/21 09:31	04/16/21 21:37	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/21 09:31	04/16/21 21:37	1
Total TPH	<49.8	U	49.8		mg/Kg		04/16/21 09:31	04/16/21 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*04/16/21 09:31*	*04/16/21 21:37*	*1*
o-Terphenyl	*83*		*70 - 130*	*04/16/21 09:31*	*04/16/21 21:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4650**		25.0		mg/Kg			04/19/21 19:54	5

Client Sample ID: AH-28 (1'-1.5') Lab Sample ID: 880-1331-191

Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 15:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 15:09	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/19/21 13:30*	*04/20/21 15:09*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/19/21 13:30*	*04/20/21 15:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 21:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 21:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 21:59	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 21:59	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-28 (1'-1.5')
Lab Sample ID: 880-1331-191
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/16/21 09:31*	*04/16/21 21:59*	*1*
o-Terphenyl	*87*		*70 - 130*	*04/16/21 09:31*	*04/16/21 21:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7330**		49.6		mg/Kg			04/19/21 19:59	10

Client Sample ID: AH-28 (2'-2.5')
Lab Sample ID: 880-1331-193
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6720**		50.0		mg/Kg			04/19/21 20:04	10

Client Sample ID: AH-28 (3'-3.5')
Lab Sample ID: 880-1331-195
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7450**		49.5		mg/Kg			04/19/21 20:09	10

Client Sample ID: AH-29 (0"-6")
Lab Sample ID: 880-1331-197
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 15:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 15:30	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/19/21 13:30*	*04/20/21 15:30*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/19/21 13:30*	*04/20/21 15:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 22:20	1
Diesel Range Organics (Over C10-C28)	**202**		50.0		mg/Kg		04/16/21 09:31	04/16/21 22:20	1
Oil Range Organics (Over C28-C36)	**75.5**		50.0		mg/Kg		04/16/21 09:31	04/16/21 22:20	1
Total TPH	**278**		50.0		mg/Kg		04/16/21 09:31	04/16/21 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*04/16/21 09:31*	*04/16/21 22:20*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-29 (0"-6")

Lab Sample ID: 880-1331-197
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*89*		*70 - 130*	*04/16/21 09:31*	*04/16/21 22:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9140**		49.5		mg/Kg			04/19/21 20:14	10

Client Sample ID: AH-29 (1'-1.5')

Lab Sample ID: 880-1331-199
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 15:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 15:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 15:50	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/19/21 13:30*	*04/20/21 15:50*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/19/21 13:30*	*04/20/21 15:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**50.7**		50.0		mg/Kg		04/16/21 09:31	04/16/21 22:41	1
Diesel Range Organics (Over C10-C28)	**103**		50.0		mg/Kg		04/16/21 09:31	04/16/21 22:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 22:41	1
Total TPH	**154**		50.0		mg/Kg		04/16/21 09:31	04/16/21 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*93*		*70 - 130*	*04/16/21 09:31*	*04/16/21 22:41*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/16/21 09:31*	*04/16/21 22:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7000**		50.0		mg/Kg			04/19/21 20:19	10

Client Sample ID: AH-29 (2'-2.5')

Lab Sample ID: 880-1331-201
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6500**		50.0		mg/Kg			04/19/21 17:47	10

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Client Sample ID: AH-29 (3'-3.5')
Lab Sample ID: 880-1331-203
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		25.1		mg/Kg			04/19/21 18:03	5

Client Sample ID: AH-30 (0"-6")
Lab Sample ID: 880-1331-205
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 16:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 16:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 16:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 16:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 16:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 16:11	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/19/21 13:30	04/20/21 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/19/21 13:30*	*04/20/21 16:11*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/19/21 13:30*	*04/20/21 16:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/21 09:31	04/16/21 23:03	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/21 09:31	04/16/21 23:03	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/21 09:31	04/16/21 23:03	1
Total TPH	<50.1	U	50.1		mg/Kg		04/16/21 09:31	04/16/21 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*04/16/21 09:31*	*04/16/21 23:03*	*1*
o-Terphenyl	*93*		*70 - 130*	*04/16/21 09:31*	*04/16/21 23:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2970		25.0		mg/Kg			04/19/21 18:08	5

Client Sample ID: AH-30 (1'-1.5')
Lab Sample ID: 880-1331-207
Date Collected: 04/14/21 00:00 **Matrix: Solid**
Date Received: 04/15/21 15:06

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 16:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 16:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 16:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 16:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 16:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 16:31	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/19/21 13:30	04/20/21 16:31	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-30 (1'-1.5')

Lab Sample ID: 880-1331-207
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/19/21 13:30	04/20/21 16:31	1
1,4-Difluorobenzene (Surr)	109		70 - 130	04/19/21 13:30	04/20/21 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/16/21 12:09	04/17/21 19:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/16/21 12:09	04/17/21 19:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/16/21 12:09	04/17/21 19:12	1
Total TPH	<49.9	U	49.9		mg/Kg		04/16/21 12:09	04/17/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	04/16/21 12:09	04/17/21 19:12	1
o-Terphenyl	113		70 - 130	04/16/21 12:09	04/17/21 19:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8750		49.5		mg/Kg			04/19/21 18:13	10

Client Sample ID: AH-30 (2'-2.5')

Lab Sample ID: 880-1331-209
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6120		49.7		mg/Kg			04/19/21 18:18	10

Client Sample ID: AH-30 (3'-3.5'')

Lab Sample ID: 880-1331-211
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6310		49.5		mg/Kg			04/19/21 18:33	10

Client Sample ID: AH-30 (4'-4.5'')

Lab Sample ID: 880-1331-213
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6660		49.5		mg/Kg			04/19/21 18:38	10

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy 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)
880-1331-1	H-1 (0"-6")	123	90
880-1331-2	H-2 (0"-6")	133 S1+	102
880-1331-3	H-3 (0"-6")	139 S1+	108
880-1331-4	H-4 (0"-6")	146 S1+	106
880-1331-5	H-5 (0"-6")	137 S1+	100
880-1331-6	H-6 (0"-6")	128	85
880-1331-7	H-7 (0"-6")	129	97
880-1331-8	H-8 (0"-6")	146 S1+	105
880-1331-9	H-9 (0"-6")	132 S1+	101
880-1331-10	H-10 (0"-6")	137 S1+	102
880-1331-11	H-11 (0"-6")	143 S1+	104
880-1331-12	H-12 (0"-6")	146 S1+	102
880-1331-13	H-13 (0"-6")	139 S1+	92
880-1331-14	H-14 (0"-6")	152 S1+	106
880-1331-15	H-15 (0"-6")	140 S1+	103
880-1331-16	H-16 (0"-6")	100	107
880-1331-16 MS	H-16 (0"-6")	151 S1+	101
880-1331-16 MSD	H-16 (0"-6")	99	97
880-1331-17	H-17 (0"-6")	123	108
880-1331-18	H-18 (0"-6")	120	121
880-1331-19	H-19 (0"-6")	143 S1+	99
880-1331-20	H-20 (0"-6")	106	112
880-1331-21	H-21 (0"-6")	104	108
880-1331-22	H-22 (0"-6")	185 S1+	105
880-1331-23	H-23 (0"-6")	112	111
880-1331-24	H-24 (0"-6")	150 S1+	76
880-1331-25	H-25 (0"-6")	100	107
880-1331-26	H-26 (0"-6")	176 S1+	81
880-1331-27	H-27 (0"-6")	100	117
880-1331-28	H-28 (0"-6")	105	114
880-1331-29	H-29 (0"-6")	158 S1+	85
880-1331-30	H-30 (0"-6")	187 S1+	82
880-1331-31	AH-1 (0"-6")	173 S1+	89
880-1331-33	AH-1 (1'-1.5')	103	117
880-1331-35	AH-2 (0"-6")	89	111
880-1331-37	AH-2 (1'-1.5')	195 S1+	85
880-1331-45	AH-3 (0"-6")	104	106
880-1331-47	AH-3 (1'-1.5')	103	107
880-1331-53	AH-4 (0"-6")	108	109
880-1331-54	AH-5 (0"-6")	107	107
880-1331-56	AH-5 (1'-1.5')	106	108
880-1331-62	AH-6 (0"-6")	119	110
880-1331-64	AH-6 (1'-1.5')	92	113
880-1331-72	AH-7 (0"-6")	105	111
880-1331-74	AH-7 (1'-1.5')	99	111
880-1331-80	AH-8 (0"-6")	100	112
880-1331-82	AH-8 (1'-1.5')	104	114
880-1331-90	AH-9 (0"-6")	99	113
880-1331-92	AH-9 (1'-1.5')	100	122

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)								
880-1331-99	AH-10 (0"-6")	103	113								
880-1331-101	AH-10 (1'-1.5')	94	105								
880-1331-109	AH-11 (0"-6")	97	114								
880-1331-111	AH-11 (1'-1.5')	96	112								
880-1331-118	AH-12 (0"-6")	98	113								
880-1331-122	AH-14 (0"-6")	134 S1+	87								
880-1331-122 MS	AH-14 (0"-6")	125	100								
880-1331-122 MSD	AH-14 (0"-6")	135 S1+	109								
880-1331-124	AH-14 (1'-1.5')	113	84								
880-1331-126	AH-15 (0"-6")	124	86								
880-1331-128	AH-15 (1'-1.5')	153 S1+	113								
880-1331-129	AH-16 (0"-6")	152 S1+	110								
880-1331-131	AH-17 (0"-6")	148 S1+	107								
880-1331-133	AH-17 (1'-1.5')	155 S1+	108								
880-1331-135	AH-18 (0"-6")	156 S1+	110								
880-1331-137	AH-19 (0"-6")	147 S1+	107								
880-1331-139	AH-20 (0"-6")	153 S1+	106								
880-1331-141	AH-20 (1'-1.5')	147 S1+	92								
880-1331-149	AH-21 (0"-6")	148 S1+	101								
880-1331-151	AH-21 (1'-1.5')	142 S1+	93								
880-1331-159	AH-22 (0"-6')	152 S1+	106								
880-1331-161	AH-22 (1'-1.5')	145 S1+	103								
880-1331-166	AH-23 (0"-6")	160 S1+	105								
880-1331-167	AH-24 (0"-6")	120	101								
880-1331-169	AH-24 (1'-1.5')	121	89								
880-1331-172	AH-25 (0"-6")	127	91								
880-1331-174	AH-26 (0"-6")	158 S1+	106								
880-1331-176	AH-26 (1'-1.5')	104	106								
880-1331-176 MS	AH-26 (1'-1.5')	102	105								
880-1331-176 MSD	AH-26 (1'-1.5')	102	105								
880-1331-179	AH-27 (0"-6")	107	107								
880-1331-181	AH-27 (1'-1.5')	109	107								
880-1331-189	AH-28 (0"-6")	109	108								
880-1331-191	AH-28 (1'-1.5')	108	109								
880-1331-197	AH-29 (0"-6")	105	108								
880-1331-199	AH-29 (1'-1.5')	108	108								
880-1331-205	AH-30 (0"-6")	105	108								
880-1331-207	AH-30 (1'-1.5')	112	109								
LCS 880-1872/1-A	Lab Control Sample	117	101								
LCS 880-1880/1-A	Lab Control Sample	87	97								
LCS 880-1889/1-A	Lab Control Sample	102	105								
LCS 880-1901/1-A	Lab Control Sample	89	108								
LCS 880-1965/1-A	Lab Control Sample	111	103								
LCS 880-1975/1-A	Lab Control Sample	98	106								
LCS 880-1985/1-A	Lab Control Sample	96	102								
LCSD 880-1872/2-A	Lab Control Sample Dup	131 S1+	110								
LCSD 880-1880/2-A	Lab Control Sample Dup	90	106								
LCSD 880-1889/2-A	Lab Control Sample Dup	102	106								
LCSD 880-1901/2-A	Lab Control Sample Dup	88	108								
LCSD 880-1965/2-A	Lab Control Sample Dup	121	107								

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCSD 880-1975/2-A	Lab Control Sample Dup	98	106
LCSD 880-1985/2-A	Lab Control Sample Dup	95	101
MB 880-1868/5-A	Method Blank	85	83
MB 880-1872/5-A	Method Blank	86	82
MB 880-1880/5-A	Method Blank	139 S1+	113
MB 880-1889/5-A	Method Blank	100	101
MB 880-1895/5-A	Method Blank	99	103
MB 880-1901/5-A	Method Blank	109	89
MB 880-1965/5-A	Method Blank	87	85
MB 880-1975/5-A	Method Blank	97	103
MB 880-1985/5-A	Method Blank	100	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-1331-1	H-1 (0"-6")	83	75
880-1331-1 MS	H-1 (0"-6")	84	69 S1-
880-1331-1 MSD	H-1 (0"-6")	84	68 S1-
880-1331-2	H-2 (0"-6")	82	75
880-1331-3	H-3 (0"-6")	76	70
880-1331-4	H-4 (0"-6")	86	81
880-1331-5	H-5 (0"-6")	80	74
880-1331-6	H-6 (0"-6")	75	67 S1-
880-1331-7	H-7 (0"-6")	88	81
880-1331-8	H-8 (0"-6")	84	77
880-1331-9	H-9 (0"-6")	100	90
880-1331-10	H-10 (0"-6")	80	72
880-1331-11	H-11 (0"-6")	78	71
880-1331-12	H-12 (0"-6")	78	70
880-1331-13	H-13 (0"-6")	99	87
880-1331-14	H-14 (0"-6")	85	78
880-1331-15	H-15 (0"-6")	83	76
880-1331-16	H-16 (0"-6")	91	85
880-1331-17	H-17 (0"-6")	82	75
880-1331-18	H-18 (0"-6")	86	80
880-1331-19	H-19 (0"-6")	77	71
880-1331-20	H-20 (0"-6")	94	89
880-1331-21	H-21 (0"-6")	88	82
880-1331-21 MS	H-21 (0"-6")	84	71
880-1331-21 MSD	H-21 (0"-6")	88	72
880-1331-22	H-22 (0"-6")	77	70
880-1331-23	H-23 (0"-6")	79	74
880-1331-24	H-24 (0"-6")	79	72
880-1331-25	H-25 (0"-6")	79	73

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-1331-26	H-26 (0"-6")	73	64 S1-								
880-1331-27	H-27 (0"-6")	86	79								
880-1331-28	H-28 (0"-6")	77	71								
880-1331-29	H-29 (0"-6")	71	63 S1-								
880-1331-30	H-30 (0"-6")	78	72								
880-1331-31	AH-1 (0"-6")	92	80								
880-1331-33	AH-1 (1'-1.5')	85	80								
880-1331-35	AH-2 (0"-6")	81	79								
880-1331-37	AH-2 (1'-1.5')	81	77								
880-1331-45	AH-3 (0"-6")	93	87								
880-1331-47	AH-3 (1'-1.5')	88	83								
880-1331-53	AH-4 (0"-6")	99	92								
880-1331-54	AH-5 (0"-6")	93	88								
880-1331-56	AH-5 (1'-1.5')	95	90								
880-1331-62	AH-6 (0"-6")	84	78								
880-1331-64	AH-6 (1'-1.5')	102	100								
880-1331-64 MS	AH-6 (1'-1.5')	105	91								
880-1331-64 MSD	AH-6 (1'-1.5')	114	100								
880-1331-72	AH-7 (0"-6")	114	110								
880-1331-74	AH-7 (1'-1.5')	113	107								
880-1331-80	AH-8 (0"-6")	110	104								
880-1331-82	AH-8 (1'-1.5')	110	106								
880-1331-90	AH-9 (0"-6")	112	107								
880-1331-92	AH-9 (1'-1.5')	107	104								
880-1331-99	AH-10 (0"-6")	110	107								
880-1331-101	AH-10 (1'-1.5')	110	106								
880-1331-109	AH-11 (0"-6")	107	102								
880-1331-111	AH-11 (1'-1.5')	103	98								
880-1331-118	AH-12 (0"-6")	101	97								
880-1331-122	AH-14 (0"-6")	105	102								
880-1331-124	AH-14 (1'-1.5')	103	101								
880-1331-126	AH-15 (0"-6")	60 S1-	101								
880-1331-128	AH-15 (1'-1.5')	103	102								
880-1331-129	AH-16 (0"-6")	106	105								
880-1331-131	AH-17 (0"-6")	104	103								
880-1331-133	AH-17 (1'-1.5')	105	102								
880-1331-135	AH-18 (0"-6")	100	96								
880-1331-137	AH-19 (0"-6")	92	82								
880-1331-137 MS	AH-19 (0"-6")	96	75								
880-1331-137 MSD	AH-19 (0"-6")	112	88								
880-1331-139	AH-20 (0"-6")	90	83								
880-1331-141	AH-20 (1'-1.5')	89	83								
880-1331-149	AH-21 (0"-6")	103	96								
880-1331-151	AH-21 (1'-1.5')	90	83								
880-1331-159	AH-22 (0"-6')	91	84								
880-1331-161	AH-22 (1'-1.5')	90	83								
880-1331-166	AH-23 (0"-6")	92	84								
880-1331-167	AH-24 (0"-6")	101	91								
880-1331-169	AH-24 (1'-1.5')	92	84								
880-1331-172	AH-25 (0"-6")	100	90								

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-1331-174	AH-26 (0"-6")	90	82								
880-1331-176	AH-26 (1'-1.5')	94	86								
880-1331-179	AH-27 (0"-6")	110	97								
880-1331-181	AH-27 (1'-1.5')	91	83								
880-1331-189	AH-28 (0"-6")	94	83								
880-1331-191	AH-28 (1'-1.5')	92	87								
880-1331-197	AH-29 (0"-6")	93	89								
880-1331-199	AH-29 (1'-1.5')	93	89								
880-1331-205	AH-30 (0"-6")	104	93								
880-1331-207	AH-30 (1'-1.5')	127	113								
LCS 880-1859/2-A	Lab Control Sample	95	80								
LCS 880-1860/2-A	Lab Control Sample	101	86								
LCS 880-1861/2-A	Lab Control Sample	111	93								
LCS 880-1864/2-A	Lab Control Sample	96	80								
LCS 880-1894/2-A	Lab Control Sample	95	78								
LCSD 880-1859/3-A	Lab Control Sample Dup	96	81								
LCSD 880-1860/3-A	Lab Control Sample Dup	98	84								
LCSD 880-1861/3-A	Lab Control Sample Dup	109	91								
LCSD 880-1864/3-A	Lab Control Sample Dup	94	78								
LCSD 880-1894/3-A	Lab Control Sample Dup	117	101								
MB 880-1859/1-A	Method Blank	97	90								
MB 880-1860/1-A	Method Blank	89	86								
MB 880-1861/1-A	Method Blank	103	97								
MB 880-1864/1-A	Method Blank	105	98								
MB 880-1894/1-A	Method Blank	93	91								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1868/5-A
Matrix: Solid
Analysis Batch: 1897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:07	04/16/21 15:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:07	04/16/21 15:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:07	04/16/21 15:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/21 10:07	04/16/21 15:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:07	04/16/21 15:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/21 10:07	04/16/21 15:45	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/16/21 10:07	04/16/21 15:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*04/16/21 10:07*	*04/16/21 15:45*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*04/16/21 10:07*	*04/16/21 15:45*	*1*

Lab Sample ID: MB 880-1872/5-A
Matrix: Solid
Analysis Batch: 1897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 05:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 05:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 05:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/21 10:29	04/17/21 05:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 10:29	04/17/21 05:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/21 10:29	04/17/21 05:45	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/16/21 10:29	04/17/21 05:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*04/16/21 10:29*	*04/17/21 05:45*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*04/16/21 10:29*	*04/17/21 05:45*	*1*

Lab Sample ID: LCS 880-1872/1-A
Matrix: Solid
Analysis Batch: 1897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1034		mg/Kg		103	70 - 130
Toluene	0.100	0.1131		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2098		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-1872/2-A
Matrix: Solid
Analysis Batch: 1897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1872

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1024		mg/Kg		102	70 - 130	1	35
Toluene			0.100	0.1151		mg/Kg		115	70 - 130	2	35
Ethylbenzene			0.100	0.1054		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2137		mg/Kg		107	70 - 130	2	35
o-Xylene			0.100	0.1185		mg/Kg		119	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-1880/5-A
Matrix: Solid
Analysis Batch: 1902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 19:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 19:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 19:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/21 11:10	04/16/21 19:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:10	04/16/21 19:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/21 11:10	04/16/21 19:18	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/16/21 11:10	04/16/21 19:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*04/16/21 11:10*	*04/16/21 19:18*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/16/21 11:10*	*04/16/21 19:18*	*1*

Lab Sample ID: LCS 880-1880/1-A
Matrix: Solid
Analysis Batch: 1902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1880

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.07458		mg/Kg		75	70 - 130
Toluene			0.100	0.08592		mg/Kg		86	70 - 130
Ethylbenzene			0.100	0.08572		mg/Kg		86	70 - 130
m-Xylene & p-Xylene			0.200	0.1706		mg/Kg		85	70 - 130
o-Xylene			0.100	0.08174		mg/Kg		82	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-1880/2-A
Matrix: Solid
Analysis Batch: 1902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1880

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07520		mg/Kg		75	70 - 130	1	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-1880/2-A
Matrix: Solid
Analysis Batch: 1902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1880

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.08948		mg/Kg		89	70 - 130	4	35
Ethylbenzene			0.100	0.08770		mg/Kg		88	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1762		mg/Kg		88	70 - 130	3	35
o-Xylene			0.100	0.09001		mg/Kg		90	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-1331-16 MS
Matrix: Solid
Analysis Batch: 1902

Client Sample ID: H-16 (0"-6")
Prep Type: Total/NA
Prep Batch: 1880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.101	0.05534	F1	mg/Kg		55	70 - 130		
Toluene	<0.00200	U	0.101	0.07600		mg/Kg		75	70 - 130		
Ethylbenzene	<0.00200	U	0.101	0.1071		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F2	0.202	0.2236		mg/Kg		111	70 - 130		
o-Xylene	<0.00200	U F2	0.101	0.1148		mg/Kg		114	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-1331-16 MSD
Matrix: Solid
Analysis Batch: 1902

Client Sample ID: H-16 (0"-6")
Prep Type: Total/NA
Prep Batch: 1880

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	0.05954	F1	mg/Kg		59	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.07254		mg/Kg		72	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.07751		mg/Kg		77	70 - 130	32	35
m-Xylene & p-Xylene	<0.00399	U F2	0.201	0.1467	F2	mg/Kg		73	70 - 130	42	35
o-Xylene	<0.00200	U F2	0.100	0.07466	F2	mg/Kg		74	70 - 130	42	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-1889/5-A
Matrix: Solid
Analysis Batch: 1905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1889

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:45	04/17/21 07:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:45	04/17/21 07:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:45	04/17/21 07:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/21 11:45	04/17/21 07:25	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-1889/5-A
Matrix: Solid
Analysis Batch: 1905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1889

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 11:45	04/17/21 07:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/21 11:45	04/17/21 07:25	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/16/21 11:45	04/17/21 07:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/16/21 11:45*	*04/17/21 07:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/16/21 11:45*	*04/17/21 07:25*	*1*

Lab Sample ID: LCS 880-1889/1-A
Matrix: Solid
Analysis Batch: 1905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08467		mg/Kg		85	70 - 130
Toluene	0.100	0.08823		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09208		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1867		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09378		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-1889/2-A
Matrix: Solid
Analysis Batch: 1905

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1889

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09488		mg/Kg		95	70 - 130	11	35
Toluene	0.100	0.09428		mg/Kg		94	70 - 130	7	35
Ethylbenzene	0.100	0.09638		mg/Kg		96	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1940		mg/Kg		97	70 - 130	4	35
o-Xylene	0.100	0.09674		mg/Kg		97	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-1895/5-A
Matrix: Solid
Analysis Batch: 1905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 12:15	04/16/21 19:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 12:15	04/16/21 19:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 12:15	04/16/21 19:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/21 12:15	04/16/21 19:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 12:15	04/16/21 19:50	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-1895/5-A
Matrix: Solid
Analysis Batch: 1905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/21 12:15	04/16/21 19:50	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/16/21 12:15	04/16/21 19:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/16/21 12:15*	*04/16/21 19:50*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*04/16/21 12:15*	*04/16/21 19:50*	*1*

Lab Sample ID: MB 880-1901/5-A
Matrix: Solid
Analysis Batch: 1966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 13:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 13:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 13:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/21 15:25	04/19/21 13:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/21 15:25	04/19/21 13:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/21 15:25	04/19/21 13:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/16/21 15:25	04/19/21 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/16/21 15:25*	*04/19/21 13:34*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/16/21 15:25*	*04/19/21 13:34*	*1*

Lab Sample ID: LCS 880-1901/1-A
Matrix: Solid
Analysis Batch: 1966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09330		mg/Kg		93	70 - 130
Toluene	0.100	0.09946		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09902		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1966		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09692		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-1901/2-A
Matrix: Solid
Analysis Batch: 1966

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1901

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09251		mg/Kg		93	70 - 130	1	35
Toluene	0.100	0.09484		mg/Kg		95	70 - 130	5	35
Ethylbenzene	0.100	0.09385		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1858		mg/Kg		93	70 - 130	6	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-1901/2-A
Matrix: Solid
Analysis Batch: 1966

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1901

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			0.100	0.09071		mg/Kg		91	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 880-1965/5-A
Matrix: Solid
Analysis Batch: 2056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 19:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 19:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 19:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/19/21 10:02	04/20/21 19:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 10:02	04/20/21 19:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/19/21 10:02	04/20/21 19:02	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/19/21 10:02	04/20/21 19:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*04/19/21 10:02*	*04/20/21 19:02*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/19/21 10:02*	*04/20/21 19:02*	*1*

Lab Sample ID: LCS 880-1965/1-A
Matrix: Solid
Analysis Batch: 2056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1965

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.1091		mg/Kg		109	70 - 130
Toluene			0.100	0.1143		mg/Kg		114	70 - 130
Ethylbenzene			0.100	0.1073		mg/Kg		107	70 - 130
m-Xylene & p-Xylene			0.200	0.2188		mg/Kg		109	70 - 130
o-Xylene			0.100	0.1171		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-1965/2-A
Matrix: Solid
Analysis Batch: 2056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1965

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1101		mg/Kg		110	70 - 130	1	35
Toluene			0.100	0.1044		mg/Kg		104	70 - 130	9	35
Ethylbenzene			0.100	0.1118		mg/Kg		112	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2292		mg/Kg		115	70 - 130	5	35
o-Xylene			0.100	0.1254		mg/Kg		125	70 - 130	7	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-1331-122 MS — **Client Sample ID: AH-14 (0"-6")**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 2056 — **Prep Batch: 1965**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F2 F1	0.0990	0.04643	F1	mg/Kg		47	70 - 130
Toluene	<0.00198	U F2 F1	0.0990	0.04970	F1	mg/Kg		50	70 - 130
Ethylbenzene	<0.00198	U F2 F1	0.0990	0.05222	F1	mg/Kg		53	70 - 130
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.198	0.09832	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00198	U F2 F1	0.0990	0.06445	F1	mg/Kg		65	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-1331-122 MSD — **Client Sample ID: AH-14 (0"-6")**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 2056 — **Prep Batch: 1965**

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	0.0996	0.09120	F2	mg/Kg		92	70 - 130	65	35
Toluene	<0.00198	U F2 F1	0.0996	0.08765	F2	mg/Kg		88	70 - 130	55	35
Ethylbenzene	<0.00198	U F2 F1	0.0996	0.08763	F2	mg/Kg		88	70 - 130	51	35
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.199	0.1648	F2	mg/Kg		83	70 - 130	51	35
o-Xylene	<0.00198	U F2 F1	0.0996	0.1019	F2	mg/Kg		102	70 - 130	45	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-1975/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1974 — **Prep Batch: 1975**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 11:01	04/19/21 13:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 11:01	04/19/21 13:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 11:01	04/19/21 13:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/19/21 11:01	04/19/21 13:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 11:01	04/19/21 13:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/19/21 11:01	04/19/21 13:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/19/21 11:01	04/19/21 13:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/19/21 11:01	04/19/21 13:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/19/21 11:01	04/19/21 13:55	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-1975/1-A
Matrix: Solid
Analysis Batch: 1974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1975

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08818		mg/Kg		88	70 - 130		
Toluene			0.100	0.09256		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.09748		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1951		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.09469		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-1975/2-A
Matrix: Solid
Analysis Batch: 1974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1975

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09326		mg/Kg		93	70 - 130	6	35
Toluene			0.100	0.09526		mg/Kg		95	70 - 130	3	35
Ethylbenzene			0.100	0.1020		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2053		mg/Kg		103	70 - 130	5	35
o-Xylene			0.100	0.09991		mg/Kg		100	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-1985/5-A
Matrix: Solid
Analysis Batch: 2028

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/19/21 13:30	04/20/21 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/21 13:30	04/20/21 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/19/21 13:30	04/20/21 13:19	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/19/21 13:30	04/20/21 13:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/19/21 13:30*	*04/20/21 13:19*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/19/21 13:30*	*04/20/21 13:19*	*1*

Lab Sample ID: LCS 880-1985/1-A
Matrix: Solid
Analysis Batch: 2028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1985

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08205		mg/Kg		82	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-1985/1-A
Matrix: Solid
Analysis Batch: 2028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1985

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toluene			0.100	0.08958		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09660		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1973		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.09612		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-1985/2-A
Matrix: Solid
Analysis Batch: 2028

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1985

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07996		mg/Kg		80	70 - 130	3	35
Toluene			0.100	0.08515		mg/Kg		85	70 - 130	5	35
Ethylbenzene			0.100	0.09066		mg/Kg		91	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1841		mg/Kg		92	70 - 130	7	35
o-Xylene			0.100	0.09040		mg/Kg		90	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-1331-176 MS
Matrix: Solid
Analysis Batch: 2028

Client Sample ID: AH-26 (1'-1.5')
Prep Type: Total/NA
Prep Batch: 1985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00202	U F1	0.0998	0.07213		mg/Kg		72	70 - 130		
Toluene	<0.00202	U F1	0.0998	0.06899	F1	mg/Kg		69	70 - 130		
Ethylbenzene	<0.00202	U F1	0.0998	0.06567	F1	mg/Kg		66	70 - 130		
m-Xylene & p-Xylene	<0.00404	U F1	0.200	0.1327	F1	mg/Kg		66	70 - 130		
o-Xylene	<0.00202	U F1	0.0998	0.06585	F1	mg/Kg		66	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-1331-176 MSD
Matrix: Solid
Analysis Batch: 2028

Client Sample ID: AH-26 (1'-1.5')
Prep Type: Total/NA
Prep Batch: 1985

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.05614	F1	mg/Kg		56	70 - 130	25	35
Toluene	<0.00202	U F1	0.100	0.05382	F1	mg/Kg		54	70 - 130	25	35
Ethylbenzene	<0.00202	U F1	0.100	0.05023	F1	mg/Kg		50	70 - 130	27	35
m-Xylene & p-Xylene	<0.00404	U F1	0.200	0.1025	F1	mg/Kg		51	70 - 130	26	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-1331-176 MSD — **Client Sample ID: AH-26 (1'-1.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 2028 — **Prep Batch: 1985**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00202	U F1	0.100	0.05065	F1	mg/Kg		51	70 - 130	26	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 880-1859/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1865 — **Prep Batch: 1859**

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		04/16/21 08:45	04/16/21 11:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 11:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 11:10	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:45	04/16/21 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*04/16/21 08:45*	*04/16/21 11:10*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/16/21 08:45*	*04/16/21 11:10*	*1*

Lab Sample ID: LCS 880-1859/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1865 — **Prep Batch: 1859**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1084		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	877.9		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: LCSD 880-1859/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1865 — **Prep Batch: 1859**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1134		mg/Kg		113	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	886.3		mg/Kg		89	70 - 130	1	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-1859/3-A
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1859

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-1331-1 MS
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: H-1 (0"-6")
Prep Type: Total/NA
Prep Batch: 1859

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	856.9		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	870.5		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: 880-1331-1 MSD
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: H-1 (0"-6")
Prep Type: Total/NA
Prep Batch: 1859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1083	F2	mg/Kg		108	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	874.4		mg/Kg		88	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: MB 880-1860/1-A
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1860

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		04/16/21 08:59	04/16/21 20:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/16/21 20:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/16/21 20:52	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 08:59	04/16/21 20:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	04/16/21 08:59	04/16/21 20:52	1
o-Terphenyl	86		70 - 130	04/16/21 08:59	04/16/21 20:52	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-1860/2-A
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1860

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1247		mg/Kg		125	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	940.1		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: LCSD 880-1860/3-A
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1860

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1200		mg/Kg		120	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	923.0		mg/Kg		92	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: 880-1331-21 MS
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: H-21 (0"-6")
Prep Type: Total/NA
Prep Batch: 1860

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	847.6		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	865.4		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Lab Sample ID: 880-1331-21 MSD
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: H-21 (0"-6")
Prep Type: Total/NA
Prep Batch: 1860

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1062	F2	mg/Kg		102	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	894.5		mg/Kg		90	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-1331-21 MSD
Matrix: Solid
Analysis Batch: 1865

Client Sample ID: H-21 (0"-6")
Prep Type: Total/NA
Prep Batch: 1860

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	72		70 - 130

Lab Sample ID: MB 880-1861/1-A
Matrix: Solid
Analysis Batch: 1882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1861

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		04/16/21 09:17	04/16/21 14:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 14:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 14:04	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:17	04/16/21 14:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/16/21 09:17	04/16/21 14:04	1
o-Terphenyl	97		70 - 130	04/16/21 09:17	04/16/21 14:04	1

Lab Sample ID: LCS 880-1861/2-A
Matrix: Solid
Analysis Batch: 1882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1215		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	1000	964.4		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-1861/3-A
Matrix: Solid
Analysis Batch: 1882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1861

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1200		mg/Kg		120	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	933.0		mg/Kg		93	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	91		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-1331-64 MS
Matrix: Solid
Analysis Batch: 1882

Client Sample ID: AH-6 (1'-1.5')
Prep Type: Total/NA
Prep Batch: 1861

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1166		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	982.9		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 880-1331-64 MSD
Matrix: Solid
Analysis Batch: 1882

Client Sample ID: AH-6 (1'-1.5')
Prep Type: Total/NA
Prep Batch: 1861

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1245		mg/Kg		122	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1086		mg/Kg		109	70 - 130	10	20

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

Lab Sample ID: MB 880-1864/1-A
Matrix: Solid
Analysis Batch: 1885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1864

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		04/16/21 09:31	04/16/21 14:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 14:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 14:04	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 09:31	04/16/21 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/16/21 09:31*	*04/16/21 14:04*	*1*
o-Terphenyl	*98*		*70 - 130*	*04/16/21 09:31*	*04/16/21 14:04*	*1*

Lab Sample ID: LCS 880-1864/2-A
Matrix: Solid
Analysis Batch: 1885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1097		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	862.8		mg/Kg		86	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-1864/2-A
Matrix: Solid
Analysis Batch: 1885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1864

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-1864/3-A
Matrix: Solid
Analysis Batch: 1885

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	992.1		mg/Kg		99	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	848.8		mg/Kg		85	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-1331-137 MS
Matrix: Solid
Analysis Batch: 1885

Client Sample ID: AH-19 (0"-6")
Prep Type: Total/NA
Prep Batch: 1864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1055		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	924.0		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-1331-137 MSD
Matrix: Solid
Analysis Batch: 1885

Client Sample ID: AH-19 (0"-6")
Prep Type: Total/NA
Prep Batch: 1864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1149		mg/Kg		113	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1067		mg/Kg		107	70 - 130	14	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	88		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-1894/1-A
Matrix: Solid
Analysis Batch: 1923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1894

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		04/16/21 12:09	04/17/21 14:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/21 12:09	04/17/21 14:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/21 12:09	04/17/21 14:55	1
Total TPH	<50.0	U	50.0		mg/Kg		04/16/21 12:09	04/17/21 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*04/16/21 12:09*	*04/17/21 14:55*	*1*
o-Terphenyl	*91*		*70 - 130*	*04/16/21 12:09*	*04/17/21 14:55*	*1*

Lab Sample ID: LCS 880-1894/2-A
Matrix: Solid
Analysis Batch: 1923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1894

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1058		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	838.4		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: LCSD 880-1894/3-A
Matrix: Solid
Analysis Batch: 1923

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1894

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1107		mg/Kg		111	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	961.7		mg/Kg		96	70 - 130	14	20

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1937/1-A
Matrix: Solid
Analysis Batch: 1962

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			04/19/21 09:30	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1937/2-A
Matrix: Solid
Analysis Batch: 1962

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-1937/3-A
Matrix: Solid
Analysis Batch: 1962

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	257.4		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-1331-8 MS
Matrix: Solid
Analysis Batch: 1962

Client Sample ID: H-8 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12.0		248	272.9		mg/Kg		105	90 - 110

Lab Sample ID: 880-1331-8 MSD
Matrix: Solid
Analysis Batch: 1962

Client Sample ID: H-8 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12.0		248	276.0		mg/Kg		107	90 - 110	1	20

Lab Sample ID: MB 880-1938/1-A
Matrix: Solid
Analysis Batch: 1964

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			04/19/21 10:08	1

Lab Sample ID: LCS 880-1938/2-A
Matrix: Solid
Analysis Batch: 1964

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-1938/3-A
Matrix: Solid
Analysis Batch: 1964

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-1331-18 MS
Matrix: Solid
Analysis Batch: 1964

Client Sample ID: H-18 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	33.5		252	286.5		mg/Kg		101	90 - 110

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-1331-18 MSD — **Client Sample ID: H-18 (0"-6")**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 1964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	33.5		252	286.3		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-1331-28 MS — **Client Sample ID: H-28 (0"-6")**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 1964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.98		250	252.5		mg/Kg		97	90 - 110

Lab Sample ID: 880-1331-28 MSD — **Client Sample ID: H-28 (0"-6")**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 1964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.98		250	253.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-1939/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 1977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/19/21 15:47	1

Lab Sample ID: LCS 880-1939/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 1977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-1939/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 1977

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-1331-84 MS — **Client Sample ID: AH-8 (2'-2.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 1977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10400		250	13210	4	mg/Kg		1109	90 - 110

Lab Sample ID: 880-1331-84 MSD — **Client Sample ID: AH-8 (2'-2.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 1977

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10400		250	13050	4	mg/Kg		1044	90 - 110	1	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-1331-103 MS
Matrix: Solid
Analysis Batch: 1977

Client Sample ID: AH-10 (2'-2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5800		253	8424	4	mg/Kg		1037	90 - 110

Lab Sample ID: 880-1331-103 MSD
Matrix: Solid
Analysis Batch: 1977

Client Sample ID: AH-10 (2'-2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5800		253	8331	4	mg/Kg		1001	90 - 110	1	20

Lab Sample ID: MB 880-1940/1-A
Matrix: Solid
Analysis Batch: 1999

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			04/19/21 14:37	1

Lab Sample ID: LCS 880-1940/2-A
Matrix: Solid
Analysis Batch: 1999

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.0		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-1940/3-A
Matrix: Solid
Analysis Batch: 1999

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	253.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-1331-126 MS
Matrix: Solid
Analysis Batch: 1999

Client Sample ID: AH-15 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	32.7		248	276.7		mg/Kg		98	90 - 110

Lab Sample ID: 880-1331-126 MSD
Matrix: Solid
Analysis Batch: 1999

Client Sample ID: AH-15 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	32.7		248	276.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-1331-145 MS
Matrix: Solid
Analysis Batch: 1999

Client Sample ID: AH-20 (3'-3.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	891	F1	248	1063	F1	mg/Kg		70	90 - 110

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-1331-145 MSD
Matrix: Solid
Analysis Batch: 1999

Client Sample ID: AH-20 (3'-3.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	891	F1	248	1062	F1	mg/Kg		69	90 - 110	0	20

Lab Sample ID: MB 880-1941/1-A
Matrix: Solid
Analysis Batch: 2000

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			04/19/21 17:46	1

Lab Sample ID: LCS 880-1941/2-A
Matrix: Solid
Analysis Batch: 2000

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-1941/3-A
Matrix: Solid
Analysis Batch: 2000

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	256.5		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-1331-165 MS
Matrix: Solid
Analysis Batch: 2000

Client Sample ID: AH-22 (3'-3.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	154		250	391.0		mg/Kg		95	90 - 110

Lab Sample ID: 880-1331-165 MSD
Matrix: Solid
Analysis Batch: 2000

Client Sample ID: AH-22 (3'-3.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	154		250	390.5		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-1331-181 MS
Matrix: Solid
Analysis Batch: 2000

Client Sample ID: AH-27 (1'-1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5180		1240	6266	4	mg/Kg		88	90 - 110

Lab Sample ID: 880-1331-181 MSD
Matrix: Solid
Analysis Batch: 2000

Client Sample ID: AH-27 (1'-1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5180		1240	6274	4	mg/Kg		89	90 - 110	0	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1942/1-A
Matrix: Solid
Analysis Batch: 2014

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			04/19/21 17:32	1

Lab Sample ID: LCS 880-1942/2-A
Matrix: Solid
Analysis Batch: 2014

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.3		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-1942/3-A
Matrix: Solid
Analysis Batch: 2014

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.1		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-1331-201 MS
Matrix: Solid
Analysis Batch: 2014

Client Sample ID: AH-29 (2'-2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6500		250	9032	4	mg/Kg		1011	90 - 110

Lab Sample ID: 880-1331-201 MSD
Matrix: Solid
Analysis Batch: 2014

Client Sample ID: AH-29 (2'-2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6500		250	9042	4	mg/Kg		1015	90 - 110	0	20

Lab Sample ID: MB 880-1945/1-A
Matrix: Solid
Analysis Batch: 2032

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			04/20/21 10:01	1

Lab Sample ID: LCS 880-1945/2-A
Matrix: Solid
Analysis Batch: 2032

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-1945/3-A
Matrix: Solid
Analysis Batch: 2032

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	252.4		mg/Kg		101	90 - 110	0	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-1331-54 MS
Matrix: Solid
Analysis Batch: 2032

Client Sample ID: AH-5 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7590		251	9617	4	mg/Kg		809	90 - 110

Lab Sample ID: 880-1331-54 MSD
Matrix: Solid
Analysis Batch: 2032

Client Sample ID: AH-5 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7590		251	10010	4	mg/Kg		965	90 - 110	4	20

Lab Sample ID: 880-1331-74 MS
Matrix: Solid
Analysis Batch: 2032

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10400		250	12870	4	mg/Kg		981	90 - 110

Lab Sample ID: 880-1331-74 MSD
Matrix: Solid
Analysis Batch: 2032

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10400		250	12860	4	mg/Kg		980	90 - 110	0	20

Lab Sample ID: MB 880-1943/1-A
Matrix: Solid
Analysis Batch: 2049

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			04/20/21 13:46	1

Lab Sample ID: LCS 880-1943/2-A
Matrix: Solid
Analysis Batch: 2049

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	260.7		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-1943/3-A
Matrix: Solid
Analysis Batch: 2049

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	261.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-1944/1-A
Matrix: Solid
Analysis Batch: 2050

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			04/22/21 09:50	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-1944/2-A
Matrix: Solid
Analysis Batch: 2050

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	239.5		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-1944/3-A
Matrix: Solid
Analysis Batch: 2050

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	238.7		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-1331-45 MS
Matrix: Solid
Analysis Batch: 2050

Client Sample ID: AH-3 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	7300		250	9697	4	mg/Kg		959	90 - 110		

Lab Sample ID: 880-1331-45 MSD
Matrix: Solid
Analysis Batch: 2050

Client Sample ID: AH-3 (0"-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7300		250	9789	4	mg/Kg		996	90 - 110	1	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 1868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1868/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 1872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-1	H-1 (0"-6")	Total/NA	Solid	5035	
880-1331-2	H-2 (0"-6")	Total/NA	Solid	5035	
880-1331-3	H-3 (0"-6")	Total/NA	Solid	5035	
880-1331-4	H-4 (0"-6")	Total/NA	Solid	5035	
880-1331-5	H-5 (0"-6")	Total/NA	Solid	5035	
880-1331-6	H-6 (0"-6")	Total/NA	Solid	5035	
880-1331-7	H-7 (0"-6")	Total/NA	Solid	5035	
880-1331-8	H-8 (0"-6")	Total/NA	Solid	5035	
880-1331-9	H-9 (0"-6")	Total/NA	Solid	5035	
880-1331-10	H-10 (0"-6")	Total/NA	Solid	5035	
880-1331-11	H-11 (0"-6")	Total/NA	Solid	5035	
880-1331-12	H-12 (0"-6")	Total/NA	Solid	5035	
880-1331-13	H-13 (0"-6")	Total/NA	Solid	5035	
880-1331-14	H-14 (0"-6")	Total/NA	Solid	5035	
880-1331-15	H-15 (0"-6")	Total/NA	Solid	5035	
MB 880-1872/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1872/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1872/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 1880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-16	H-16 (0"-6")	Total/NA	Solid	5035	
880-1331-17	H-17 (0"-6")	Total/NA	Solid	5035	
880-1331-18	H-18 (0"-6")	Total/NA	Solid	5035	
880-1331-19	H-19 (0"-6")	Total/NA	Solid	5035	
880-1331-20	H-20 (0"-6")	Total/NA	Solid	5035	
880-1331-21	H-21 (0"-6")	Total/NA	Solid	5035	
880-1331-22	H-22 (0"-6")	Total/NA	Solid	5035	
880-1331-23	H-23 (0"-6")	Total/NA	Solid	5035	
880-1331-24	H-24 (0"-6")	Total/NA	Solid	5035	
880-1331-25	H-25 (0"-6")	Total/NA	Solid	5035	
880-1331-26	H-26 (0"-6")	Total/NA	Solid	5035	
880-1331-27	H-27 (0"-6")	Total/NA	Solid	5035	
880-1331-28	H-28 (0"-6")	Total/NA	Solid	5035	
880-1331-29	H-29 (0"-6")	Total/NA	Solid	5035	
880-1331-30	H-30 (0"-6")	Total/NA	Solid	5035	
880-1331-31	AH-1 (0"-6")	Total/NA	Solid	5035	
880-1331-33	AH-1 (1'-1.5')	Total/NA	Solid	5035	
880-1331-35	AH-2 (0"-6")	Total/NA	Solid	5035	
880-1331-37	AH-2 (1'-1.5')	Total/NA	Solid	5035	
MB 880-1880/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1880/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1880/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1331-16 MS	H-16 (0"-6")	Total/NA	Solid	5035	
880-1331-16 MSD	H-16 (0"-6")	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 1889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-47	AH-3 (1'-1.5')	Total/NA	Solid	5035	
880-1331-53	AH-4 (0"-6")	Total/NA	Solid	5035	
880-1331-54	AH-5 (0"-6")	Total/NA	Solid	5035	
880-1331-56	AH-5 (1'-1.5')	Total/NA	Solid	5035	
880-1331-62	AH-6 (0"-6")	Total/NA	Solid	5035	
MB 880-1889/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1889/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1889/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 1895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1895/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-1	H-1 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-2	H-2 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-3	H-3 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-4	H-4 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-5	H-5 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-6	H-6 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-7	H-7 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-8	H-8 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-9	H-9 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-10	H-10 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-11	H-11 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-12	H-12 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-13	H-13 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-14	H-14 (0"-6")	Total/NA	Solid	8021B	1872
880-1331-15	H-15 (0"-6")	Total/NA	Solid	8021B	1872
MB 880-1868/5-A	Method Blank	Total/NA	Solid	8021B	1868
MB 880-1872/5-A	Method Blank	Total/NA	Solid	8021B	1872
LCS 880-1872/1-A	Lab Control Sample	Total/NA	Solid	8021B	1872
LCSD 880-1872/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1872

Prep Batch: 1901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-64	AH-6 (1'-1.5')	Total/NA	Solid	5035	
880-1331-72	AH-7 (0"-6")	Total/NA	Solid	5035	
880-1331-74	AH-7 (1'-1.5')	Total/NA	Solid	5035	
880-1331-80	AH-8 (0"-6")	Total/NA	Solid	5035	
880-1331-82	AH-8 (1'-1.5')	Total/NA	Solid	5035	
880-1331-90	AH-9 (0"-6")	Total/NA	Solid	5035	
880-1331-92	AH-9 (1'-1.5')	Total/NA	Solid	5035	
880-1331-99	AH-10 (0"-6")	Total/NA	Solid	5035	
880-1331-101	AH-10 (1'-1.5')	Total/NA	Solid	5035	
880-1331-109	AH-11 (0"-6")	Total/NA	Solid	5035	
880-1331-111	AH-11 (1'-1.5')	Total/NA	Solid	5035	
880-1331-118	AH-12 (0"-6")	Total/NA	Solid	5035	
MB 880-1901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1901/1-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC VOA (Continued)

Prep Batch: 1901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-1901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-16	H-16 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-17	H-17 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-18	H-18 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-19	H-19 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-20	H-20 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-21	H-21 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-22	H-22 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-23	H-23 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-24	H-24 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-25	H-25 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-26	H-26 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-27	H-27 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-28	H-28 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-29	H-29 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-30	H-30 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-31	AH-1 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-33	AH-1 (1'-1.5')	Total/NA	Solid	8021B	1880
880-1331-35	AH-2 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-37	AH-2 (1'-1.5')	Total/NA	Solid	8021B	1880
MB 880-1880/5-A	Method Blank	Total/NA	Solid	8021B	1880
LCS 880-1880/1-A	Lab Control Sample	Total/NA	Solid	8021B	1880
LCSD 880-1880/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1880
880-1331-16 MS	H-16 (0"-6")	Total/NA	Solid	8021B	1880
880-1331-16 MSD	H-16 (0"-6")	Total/NA	Solid	8021B	1880

Analysis Batch: 1905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-47	AH-3 (1'-1.5')	Total/NA	Solid	8021B	1889
880-1331-53	AH-4 (0"-6")	Total/NA	Solid	8021B	1889
880-1331-54	AH-5 (0"-6")	Total/NA	Solid	8021B	1889
880-1331-56	AH-5 (1'-1.5')	Total/NA	Solid	8021B	1889
880-1331-62	AH-6 (0"-6")	Total/NA	Solid	8021B	1889
MB 880-1889/5-A	Method Blank	Total/NA	Solid	8021B	1889
MB 880-1895/5-A	Method Blank	Total/NA	Solid	8021B	1895
LCS 880-1889/1-A	Lab Control Sample	Total/NA	Solid	8021B	1889
LCSD 880-1889/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1889

Prep Batch: 1965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-122	AH-14 (0"-6")	Total/NA	Solid	5035	
880-1331-124	AH-14 (1'-1.5')	Total/NA	Solid	5035	
880-1331-126	AH-15 (0"-6")	Total/NA	Solid	5035	
880-1331-128	AH-15 (1'-1.5')	Total/NA	Solid	5035	
880-1331-129	AH-16 (0"-6")	Total/NA	Solid	5035	
880-1331-131	AH-17 (0"-6")	Total/NA	Solid	5035	
880-1331-133	AH-17 (1'-1.5')	Total/NA	Solid	5035	
880-1331-135	AH-18 (0"-6")	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC VOA (Continued)

Prep Batch: 1965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-137	AH-19 (0"-6")	Total/NA	Solid	5035	
880-1331-139	AH-20 (0"-6")	Total/NA	Solid	5035	
880-1331-141	AH-20 (1'-1.5')	Total/NA	Solid	5035	
880-1331-149	AH-21 (0"-6")	Total/NA	Solid	5035	
880-1331-151	AH-21 (1'-1.5')	Total/NA	Solid	5035	
880-1331-159	AH-22 (0"-6')	Total/NA	Solid	5035	
880-1331-161	AH-22 (1'-1.5')	Total/NA	Solid	5035	
880-1331-166	AH-23 (0"-6")	Total/NA	Solid	5035	
880-1331-167	AH-24 (0"-6")	Total/NA	Solid	5035	
880-1331-169	AH-24 (1'-1.5')	Total/NA	Solid	5035	
880-1331-172	AH-25 (0"-6")	Total/NA	Solid	5035	
880-1331-174	AH-26 (0"-6")	Total/NA	Solid	5035	
MB 880-1965/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1965/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1965/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1331-122 MS	AH-14 (0"-6")	Total/NA	Solid	5035	
880-1331-122 MSD	AH-14 (0"-6")	Total/NA	Solid	5035	

Analysis Batch: 1966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-64	AH-6 (1'-1.5')	Total/NA	Solid	8021B	1901
880-1331-72	AH-7 (0"-6")	Total/NA	Solid	8021B	1901
880-1331-74	AH-7 (1'-1.5')	Total/NA	Solid	8021B	1901
880-1331-80	AH-8 (0"-6")	Total/NA	Solid	8021B	1901
880-1331-82	AH-8 (1'-1.5')	Total/NA	Solid	8021B	1901
880-1331-90	AH-9 (0"-6")	Total/NA	Solid	8021B	1901
880-1331-92	AH-9 (1'-1.5')	Total/NA	Solid	8021B	1901
880-1331-99	AH-10 (0"-6")	Total/NA	Solid	8021B	1901
880-1331-101	AH-10 (1'-1.5')	Total/NA	Solid	8021B	1901
880-1331-109	AH-11 (0"-6")	Total/NA	Solid	8021B	1901
880-1331-111	AH-11 (1'-1.5')	Total/NA	Solid	8021B	1901
880-1331-118	AH-12 (0"-6")	Total/NA	Solid	8021B	1901
MB 880-1901/5-A	Method Blank	Total/NA	Solid	8021B	1901
LCS 880-1901/1-A	Lab Control Sample	Total/NA	Solid	8021B	1901
LCSD 880-1901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1901

Analysis Batch: 1974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-45	AH-3 (0"-6")	Total/NA	Solid	8021B	1975
MB 880-1975/5-A	Method Blank	Total/NA	Solid	8021B	1975
LCS 880-1975/1-A	Lab Control Sample	Total/NA	Solid	8021B	1975
LCSD 880-1975/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1975

Prep Batch: 1975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-45	AH-3 (0"-6")	Total/NA	Solid	5035	
MB 880-1975/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1975/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1975/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 1985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-176	AH-26 (1'-1.5')	Total/NA	Solid	5035	
880-1331-179	AH-27 (0"-6")	Total/NA	Solid	5035	
880-1331-181	AH-27 (1'-1.5')	Total/NA	Solid	5035	
880-1331-189	AH-28 (0"-6")	Total/NA	Solid	5035	
880-1331-191	AH-28 (1'-1.5')	Total/NA	Solid	5035	
880-1331-197	AH-29 (0"-6")	Total/NA	Solid	5035	
880-1331-199	AH-29 (1'-1.5')	Total/NA	Solid	5035	
880-1331-205	AH-30 (0"-6")	Total/NA	Solid	5035	
880-1331-207	AH-30 (1'-1.5')	Total/NA	Solid	5035	
MB 880-1985/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1985/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1985/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1331-176 MS	AH-26 (1'-1.5')	Total/NA	Solid	5035	
880-1331-176 MSD	AH-26 (1'-1.5')	Total/NA	Solid	5035	

Analysis Batch: 2028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-176	AH-26 (1'-1.5')	Total/NA	Solid	8021B	1985
880-1331-179	AH-27 (0"-6")	Total/NA	Solid	8021B	1985
880-1331-181	AH-27 (1'-1.5')	Total/NA	Solid	8021B	1985
880-1331-189	AH-28 (0"-6")	Total/NA	Solid	8021B	1985
880-1331-191	AH-28 (1'-1.5')	Total/NA	Solid	8021B	1985
880-1331-197	AH-29 (0"-6")	Total/NA	Solid	8021B	1985
880-1331-199	AH-29 (1'-1.5')	Total/NA	Solid	8021B	1985
880-1331-205	AH-30 (0"-6")	Total/NA	Solid	8021B	1985
880-1331-207	AH-30 (1'-1.5')	Total/NA	Solid	8021B	1985
MB 880-1985/5-A	Method Blank	Total/NA	Solid	8021B	1985
LCS 880-1985/1-A	Lab Control Sample	Total/NA	Solid	8021B	1985
LCSD 880-1985/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1985
880-1331-176 MS	AH-26 (1'-1.5')	Total/NA	Solid	8021B	1985
880-1331-176 MSD	AH-26 (1'-1.5')	Total/NA	Solid	8021B	1985

Analysis Batch: 2056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-122	AH-14 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-124	AH-14 (1'-1.5')	Total/NA	Solid	8021B	1965
880-1331-126	AH-15 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-128	AH-15 (1'-1.5')	Total/NA	Solid	8021B	1965
880-1331-129	AH-16 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-131	AH-17 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-133	AH-17 (1'-1.5')	Total/NA	Solid	8021B	1965
880-1331-135	AH-18 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-137	AH-19 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-139	AH-20 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-141	AH-20 (1'-1.5')	Total/NA	Solid	8021B	1965
880-1331-149	AH-21 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-151	AH-21 (1'-1.5')	Total/NA	Solid	8021B	1965
880-1331-159	AH-22 (0"-6')	Total/NA	Solid	8021B	1965
880-1331-161	AH-22 (1'-1.5')	Total/NA	Solid	8021B	1965
880-1331-166	AH-23 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-167	AH-24 (0"-6")	Total/NA	Solid	8021B	1965

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 2056 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-169	AH-24 (1'-1.5')	Total/NA	Solid	8021B	1965
880-1331-172	AH-25 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-174	AH-26 (0"-6")	Total/NA	Solid	8021B	1965
MB 880-1965/5-A	Method Blank	Total/NA	Solid	8021B	1965
LCS 880-1965/1-A	Lab Control Sample	Total/NA	Solid	8021B	1965
LCSD 880-1965/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1965
880-1331-122 MS	AH-14 (0"-6")	Total/NA	Solid	8021B	1965
880-1331-122 MSD	AH-14 (0"-6")	Total/NA	Solid	8021B	1965

GC Semi VOA

Prep Batch: 1859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-1	H-1 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-2	H-2 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-3	H-3 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-4	H-4 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-5	H-5 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-6	H-6 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-7	H-7 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-8	H-8 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-9	H-9 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-10	H-10 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-11	H-11 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-12	H-12 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-13	H-13 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-14	H-14 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-15	H-15 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-16	H-16 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-17	H-17 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-18	H-18 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-19	H-19 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-20	H-20 (0"-6")	Total/NA	Solid	8015NM Prep	
MB 880-1859/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1859/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1859/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1331-1 MS	H-1 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-1 MSD	H-1 (0"-6")	Total/NA	Solid	8015NM Prep	

Prep Batch: 1860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-21	H-21 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-22	H-22 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-23	H-23 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-24	H-24 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-25	H-25 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-26	H-26 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-27	H-27 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-28	H-28 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-29	H-29 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-30	H-30 (0"-6")	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 1860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-31	AH-1 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-33	AH-1 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-35	AH-2 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-37	AH-2 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-45	AH-3 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-47	AH-3 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-53	AH-4 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-54	AH-5 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-56	AH-5 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-62	AH-6 (0"-6")	Total/NA	Solid	8015NM Prep	
MB 880-1860/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1860/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1860/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1331-21 MS	H-21 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-21 MSD	H-21 (0"-6")	Total/NA	Solid	8015NM Prep	

Prep Batch: 1861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-64	AH-6 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-72	AH-7 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-74	AH-7 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-80	AH-8 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-82	AH-8 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-90	AH-9 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-92	AH-9 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-99	AH-10 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-101	AH-10 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-109	AH-11 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-111	AH-11 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-118	AH-12 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-122	AH-14 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-124	AH-14 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-126	AH-15 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-128	AH-15 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-129	AH-16 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-131	AH-17 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-133	AH-17 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-135	AH-18 (0"-6")	Total/NA	Solid	8015NM Prep	
MB 880-1861/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1861/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1861/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1331-64 MS	AH-6 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-64 MSD	AH-6 (1'-1.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 1864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-137	AH-19 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-139	AH-20 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-141	AH-20 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-149	AH-21 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-151	AH-21 (1'-1.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 1864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-159	AH-22 (0"-6')	Total/NA	Solid	8015NM Prep	
880-1331-161	AH-22 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-166	AH-23 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-167	AH-24 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-169	AH-24 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-172	AH-25 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-174	AH-26 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-176	AH-26 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-179	AH-27 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-181	AH-27 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-189	AH-28 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-191	AH-28 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-197	AH-29 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-199	AH-29 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1331-205	AH-30 (0"-6")	Total/NA	Solid	8015NM Prep	
MB 880-1864/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1864/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1864/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1331-137 MS	AH-19 (0"-6")	Total/NA	Solid	8015NM Prep	
880-1331-137 MSD	AH-19 (0"-6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-1	H-1 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-2	H-2 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-3	H-3 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-4	H-4 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-5	H-5 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-6	H-6 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-7	H-7 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-8	H-8 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-9	H-9 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-10	H-10 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-11	H-11 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-12	H-12 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-13	H-13 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-14	H-14 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-15	H-15 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-16	H-16 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-17	H-17 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-18	H-18 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-19	H-19 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-20	H-20 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-21	H-21 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-22	H-22 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-23	H-23 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-24	H-24 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-25	H-25 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-26	H-26 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-27	H-27 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-28	H-28 (0"-6")	Total/NA	Solid	8015B NM	1860

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 1865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-29	H-29 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-30	H-30 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-31	AH-1 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-33	AH-1 (1'-1.5')	Total/NA	Solid	8015B NM	1860
880-1331-35	AH-2 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-37	AH-2 (1'-1.5')	Total/NA	Solid	8015B NM	1860
880-1331-45	AH-3 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-47	AH-3 (1'-1.5')	Total/NA	Solid	8015B NM	1860
880-1331-53	AH-4 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-54	AH-5 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-56	AH-5 (1'-1.5')	Total/NA	Solid	8015B NM	1860
880-1331-62	AH-6 (0"-6")	Total/NA	Solid	8015B NM	1860
MB 880-1859/1-A	Method Blank	Total/NA	Solid	8015B NM	1859
MB 880-1860/1-A	Method Blank	Total/NA	Solid	8015B NM	1860
LCS 880-1859/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1859
LCS 880-1860/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1860
LCSD 880-1859/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1859
LCSD 880-1860/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1860
880-1331-1 MS	H-1 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-1 MSD	H-1 (0"-6")	Total/NA	Solid	8015B NM	1859
880-1331-21 MS	H-21 (0"-6")	Total/NA	Solid	8015B NM	1860
880-1331-21 MSD	H-21 (0"-6")	Total/NA	Solid	8015B NM	1860

Analysis Batch: 1882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-64	AH-6 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-72	AH-7 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-74	AH-7 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-80	AH-8 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-82	AH-8 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-90	AH-9 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-92	AH-9 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-99	AH-10 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-101	AH-10 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-109	AH-11 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-111	AH-11 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-118	AH-12 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-122	AH-14 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-124	AH-14 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-126	AH-15 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-128	AH-15 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-129	AH-16 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-131	AH-17 (0"-6")	Total/NA	Solid	8015B NM	1861
880-1331-133	AH-17 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-135	AH-18 (0"-6")	Total/NA	Solid	8015B NM	1861
MB 880-1861/1-A	Method Blank	Total/NA	Solid	8015B NM	1861
LCS 880-1861/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1861
LCSD 880-1861/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1861
880-1331-64 MS	AH-6 (1'-1.5')	Total/NA	Solid	8015B NM	1861
880-1331-64 MSD	AH-6 (1'-1.5')	Total/NA	Solid	8015B NM	1861

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

GC Semi VOA

Analysis Batch: 1885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-137	AH-19 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-139	AH-20 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-141	AH-20 (1'-1.5')	Total/NA	Solid	8015B NM	1864
880-1331-149	AH-21 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-151	AH-21 (1'-1.5')	Total/NA	Solid	8015B NM	1864
880-1331-159	AH-22 (0"-6')	Total/NA	Solid	8015B NM	1864
880-1331-161	AH-22 (1'-1.5')	Total/NA	Solid	8015B NM	1864
880-1331-166	AH-23 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-167	AH-24 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-169	AH-24 (1'-1.5')	Total/NA	Solid	8015B NM	1864
880-1331-172	AH-25 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-174	AH-26 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-176	AH-26 (1'-1.5')	Total/NA	Solid	8015B NM	1864
880-1331-179	AH-27 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-181	AH-27 (1'-1.5')	Total/NA	Solid	8015B NM	1864
880-1331-189	AH-28 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-191	AH-28 (1'-1.5')	Total/NA	Solid	8015B NM	1864
880-1331-197	AH-29 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-199	AH-29 (1'-1.5')	Total/NA	Solid	8015B NM	1864
880-1331-205	AH-30 (0"-6")	Total/NA	Solid	8015B NM	1864
MB 880-1864/1-A	Method Blank	Total/NA	Solid	8015B NM	1864
LCS 880-1864/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1864
LCSD 880-1864/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1864
880-1331-137 MS	AH-19 (0"-6")	Total/NA	Solid	8015B NM	1864
880-1331-137 MSD	AH-19 (0"-6")	Total/NA	Solid	8015B NM	1864

Prep Batch: 1894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-207	AH-30 (1'-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-1894/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1894/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-207	AH-30 (1'-1.5')	Total/NA	Solid	8015B NM	1894
MB 880-1894/1-A	Method Blank	Total/NA	Solid	8015B NM	1894
LCS 880-1894/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1894
LCSD 880-1894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1894

HPLC/IC

Leach Batch: 1937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-4	H-4 (0"-6")	Soluble	Solid	DI Leach	
880-1331-5	H-5 (0"-6")	Soluble	Solid	DI Leach	
880-1331-6	H-6 (0"-6")	Soluble	Solid	DI Leach	
880-1331-7	H-7 (0"-6")	Soluble	Solid	DI Leach	
880-1331-8	H-8 (0"-6")	Soluble	Solid	DI Leach	
880-1331-9	H-9 (0"-6")	Soluble	Solid	DI Leach	
880-1331-10	H-10 (0"-6")	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 1937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-11	H-11 (0"-6")	Soluble	Solid	DI Leach	
880-1331-12	H-12 (0"-6")	Soluble	Solid	DI Leach	
880-1331-13	H-13 (0"-6")	Soluble	Solid	DI Leach	
880-1331-14	H-14 (0"-6")	Soluble	Solid	DI Leach	
880-1331-15	H-15 (0"-6")	Soluble	Solid	DI Leach	
880-1331-16	H-16 (0"-6")	Soluble	Solid	DI Leach	
880-1331-17	H-17 (0"-6")	Soluble	Solid	DI Leach	
MB 880-1937/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1937/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1937/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1331-8 MS	H-8 (0"-6")	Soluble	Solid	DI Leach	
880-1331-8 MSD	H-8 (0"-6")	Soluble	Solid	DI Leach	

Leach Batch: 1938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-18	H-18 (0"-6")	Soluble	Solid	DI Leach	
880-1331-19	H-19 (0"-6")	Soluble	Solid	DI Leach	
880-1331-20	H-20 (0"-6")	Soluble	Solid	DI Leach	
880-1331-21	H-21 (0"-6")	Soluble	Solid	DI Leach	
880-1331-22	H-22 (0"-6")	Soluble	Solid	DI Leach	
880-1331-23	H-23 (0"-6")	Soluble	Solid	DI Leach	
880-1331-24	H-24 (0"-6")	Soluble	Solid	DI Leach	
880-1331-25	H-25 (0"-6")	Soluble	Solid	DI Leach	
880-1331-26	H-26 (0"-6")	Soluble	Solid	DI Leach	
880-1331-27	H-27 (0"-6")	Soluble	Solid	DI Leach	
880-1331-28	H-28 (0"-6")	Soluble	Solid	DI Leach	
880-1331-29	H-29 (0"-6")	Soluble	Solid	DI Leach	
880-1331-30	H-30 (0"-6")	Soluble	Solid	DI Leach	
880-1331-31	AH-1 (0"-6")	Soluble	Solid	DI Leach	
880-1331-33	AH-1 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-35	AH-2 (0"-6")	Soluble	Solid	DI Leach	
880-1331-37	AH-2 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-39	AH-2 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-41	AH-2 (3'-3.5)	Soluble	Solid	DI Leach	
880-1331-43	AH-2 (4'-4.5')	Soluble	Solid	DI Leach	
MB 880-1938/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1938/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1938/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1331-18 MS	H-18 (0"-6")	Soluble	Solid	DI Leach	
880-1331-18 MSD	H-18 (0"-6")	Soluble	Solid	DI Leach	
880-1331-28 MS	H-28 (0"-6")	Soluble	Solid	DI Leach	
880-1331-28 MSD	H-28 (0"-6")	Soluble	Solid	DI Leach	

Leach Batch: 1939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-84	AH-8 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-86	AH-8 (3'-3.5)	Soluble	Solid	DI Leach	
880-1331-88	AH-8 (4'-4.5')	Soluble	Solid	DI Leach	
880-1331-90	AH-9 (0"-6")	Soluble	Solid	DI Leach	
880-1331-92	AH-9 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-94	AH-9 (2'-2.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 1939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-96	AH-9 (3'-3.5)	Soluble	Solid	DI Leach	
880-1331-98	AH-9 (4'-4.5')	Soluble	Solid	DI Leach	
880-1331-99	AH-10 (0"-6")	Soluble	Solid	DI Leach	
880-1331-101	AH-10 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-103	AH-10 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-105	AH-10 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-107	AH-10 (4'-4.5')	Soluble	Solid	DI Leach	
880-1331-109	AH-11 (0"-6")	Soluble	Solid	DI Leach	
880-1331-111	AH-11 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-113	AH-11 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-115	AH-11 (3.-3.5')	Soluble	Solid	DI Leach	
880-1331-118	AH-12 (0"-6")	Soluble	Solid	DI Leach	
880-1331-122	AH-14 (0"-6")	Soluble	Solid	DI Leach	
880-1331-124	AH-14 (1'-1.5')	Soluble	Solid	DI Leach	
MB 880-1939/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1939/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1939/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1331-84 MS	AH-8 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-84 MSD	AH-8 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-103 MS	AH-10 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-103 MSD	AH-10 (2'-2.5')	Soluble	Solid	DI Leach	

Leach Batch: 1940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-126	AH-15 (0"-6")	Soluble	Solid	DI Leach	
880-1331-128	AH-15 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-129	AH-16 (0"-6")	Soluble	Solid	DI Leach	
880-1331-131	AH-17 (0"-6")	Soluble	Solid	DI Leach	
880-1331-133	AH-17 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-135	AH-18 (0"-6")	Soluble	Solid	DI Leach	
880-1331-137	AH-19 (0"-6")	Soluble	Solid	DI Leach	
880-1331-139	AH-20 (0"-6")	Soluble	Solid	DI Leach	
880-1331-141	AH-20 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-143	AH-20 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-145	AH-20 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-147	AH-20 (4'-4.5')	Soluble	Solid	DI Leach	
880-1331-149	AH-21 (0"-6")	Soluble	Solid	DI Leach	
880-1331-151	AH-21 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-153	AH-21 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-155	AH-21 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-157	AH-21 (4'-4.5')	Soluble	Solid	DI Leach	
880-1331-159	AH-22 (0"-6')	Soluble	Solid	DI Leach	
880-1331-161	AH-22 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-163	AH-22 (2'-2.5')	Soluble	Solid	DI Leach	
MB 880-1940/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1940/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1940/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1331-126 MS	AH-15 (0"-6")	Soluble	Solid	DI Leach	
880-1331-126 MSD	AH-15 (0"-6")	Soluble	Solid	DI Leach	
880-1331-145 MS	AH-20 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-145 MSD	AH-20 (3'-3.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 1941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-165	AH-22 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-166	AH-23 (0"-6")	Soluble	Solid	DI Leach	
880-1331-167	AH-24 (0"-6")	Soluble	Solid	DI Leach	
880-1331-169	AH-24 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-171	AH-24 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-172	AH-25 (0"-6")	Soluble	Solid	DI Leach	
880-1331-174	AH-26 (0"-6")	Soluble	Solid	DI Leach	
880-1331-176	AH-26 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-178	AH-26 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-179	AH-27 (0"-6")	Soluble	Solid	DI Leach	
880-1331-181	AH-27 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-183	AH-27 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-185	AH-27 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-187	AH-27 (4'-4.5')	Soluble	Solid	DI Leach	
880-1331-189	AH-28 (0"-6")	Soluble	Solid	DI Leach	
880-1331-191	AH-28 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-193	AH-28 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-195	AH-28 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-197	AH-29 (0"-6")	Soluble	Solid	DI Leach	
880-1331-199	AH-29 (1'-1.5')	Soluble	Solid	DI Leach	
MB 880-1941/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1941/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1941/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1331-165 MS	AH-22 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-165 MSD	AH-22 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-181 MS	AH-27 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-181 MSD	AH-27 (1'-1.5')	Soluble	Solid	DI Leach	

Leach Batch: 1942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-201	AH-29 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-203	AH-29 (3'-3.5')	Soluble	Solid	DI Leach	
880-1331-205	AH-30 (0"-6")	Soluble	Solid	DI Leach	
880-1331-207	AH-30 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-209	AH-30 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-211	AH-30 (3'-3.5")	Soluble	Solid	DI Leach	
880-1331-213	AH-30 (4'-4.5")	Soluble	Solid	DI Leach	
MB 880-1942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1331-201 MS	AH-29 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-201 MSD	AH-29 (2'-2.5')	Soluble	Solid	DI Leach	

Leach Batch: 1943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-1	H-1 (0"-6")	Soluble	Solid	DI Leach	
880-1331-2	H-2 (0"-6")	Soluble	Solid	DI Leach	
880-1331-3	H-3 (0"-6")	Soluble	Solid	DI Leach	
MB 880-1943/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1943/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1943/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 1944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-45	AH-3 (0"-6")	Soluble	Solid	DI Leach	
880-1331-47	AH-3 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-49	AH-3 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-51	AH-3 (3'-3.5)	Soluble	Solid	DI Leach	
880-1331-53	AH-4 (0"-6")	Soluble	Solid	DI Leach	
MB 880-1944/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1944/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1944/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1331-45 MS	AH-3 (0"-6")	Soluble	Solid	DI Leach	
880-1331-45 MSD	AH-3 (0"-6")	Soluble	Solid	DI Leach	

Leach Batch: 1945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-54	AH-5 (0"-6")	Soluble	Solid	DI Leach	
880-1331-56	AH-5 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-58	AH-5 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-60	AH-5 (3'-3.5)	Soluble	Solid	DI Leach	
880-1331-62	AH-6 (0"-6")	Soluble	Solid	DI Leach	
880-1331-64	AH-6 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-66	AH-6 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-68	AH-6 (3'-3.5)	Soluble	Solid	DI Leach	
880-1331-70	AH-6 (4'-4.5')	Soluble	Solid	DI Leach	
880-1331-72	AH-7 (0"-6")	Soluble	Solid	DI Leach	
880-1331-74	AH-7 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-76	AH-7 (2'-2.5')	Soluble	Solid	DI Leach	
880-1331-78	AH-7 (3'-3.5)	Soluble	Solid	DI Leach	
880-1331-80	AH-8 (0"-6")	Soluble	Solid	DI Leach	
880-1331-82	AH-8 (1'-1.5')	Soluble	Solid	DI Leach	
MB 880-1945/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1945/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1945/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1331-54 MS	AH-5 (0"-6")	Soluble	Solid	DI Leach	
880-1331-54 MSD	AH-5 (0"-6")	Soluble	Solid	DI Leach	
880-1331-74 MS	AH-7 (1'-1.5')	Soluble	Solid	DI Leach	
880-1331-74 MSD	AH-7 (1'-1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 1962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-4	H-4 (0"-6")	Soluble	Solid	300.0	1937
880-1331-5	H-5 (0"-6")	Soluble	Solid	300.0	1937
880-1331-6	H-6 (0"-6")	Soluble	Solid	300.0	1937
880-1331-7	H-7 (0"-6")	Soluble	Solid	300.0	1937
880-1331-8	H-8 (0"-6")	Soluble	Solid	300.0	1937
880-1331-9	H-9 (0"-6")	Soluble	Solid	300.0	1937
880-1331-10	H-10 (0"-6")	Soluble	Solid	300.0	1937
880-1331-11	H-11 (0"-6")	Soluble	Solid	300.0	1937
880-1331-12	H-12 (0"-6")	Soluble	Solid	300.0	1937
880-1331-13	H-13 (0"-6")	Soluble	Solid	300.0	1937
880-1331-14	H-14 (0"-6")	Soluble	Solid	300.0	1937
880-1331-15	H-15 (0"-6")	Soluble	Solid	300.0	1937
880-1331-16	H-16 (0"-6")	Soluble	Solid	300.0	1937

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 1962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-17	H-17 (0"-6")	Soluble	Solid	300.0	1937
MB 880-1937/1-A	Method Blank	Soluble	Solid	300.0	1937
LCS 880-1937/2-A	Lab Control Sample	Soluble	Solid	300.0	1937
LCSD 880-1937/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1937
880-1331-8 MS	H-8 (0"-6")	Soluble	Solid	300.0	1937
880-1331-8 MSD	H-8 (0"-6")	Soluble	Solid	300.0	1937

Analysis Batch: 1964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-18	H-18 (0"-6")	Soluble	Solid	300.0	1938
880-1331-19	H-19 (0"-6")	Soluble	Solid	300.0	1938
880-1331-20	H-20 (0"-6")	Soluble	Solid	300.0	1938
880-1331-21	H-21 (0"-6")	Soluble	Solid	300.0	1938
880-1331-22	H-22 (0"-6")	Soluble	Solid	300.0	1938
880-1331-23	H-23 (0"-6")	Soluble	Solid	300.0	1938
880-1331-24	H-24 (0"-6")	Soluble	Solid	300.0	1938
880-1331-25	H-25 (0"-6")	Soluble	Solid	300.0	1938
880-1331-26	H-26 (0"-6")	Soluble	Solid	300.0	1938
880-1331-27	H-27 (0"-6")	Soluble	Solid	300.0	1938
880-1331-28	H-28 (0"-6")	Soluble	Solid	300.0	1938
880-1331-29	H-29 (0"-6")	Soluble	Solid	300.0	1938
880-1331-30	H-30 (0"-6")	Soluble	Solid	300.0	1938
880-1331-31	AH-1 (0"-6")	Soluble	Solid	300.0	1938
880-1331-33	AH-1 (1'-1.5')	Soluble	Solid	300.0	1938
880-1331-35	AH-2 (0"-6")	Soluble	Solid	300.0	1938
880-1331-37	AH-2 (1'-1.5')	Soluble	Solid	300.0	1938
880-1331-39	AH-2 (2'-2.5')	Soluble	Solid	300.0	1938
880-1331-41	AH-2 (3'-3.5)	Soluble	Solid	300.0	1938
880-1331-43	AH-2 (4'-4.5')	Soluble	Solid	300.0	1938
MB 880-1938/1-A	Method Blank	Soluble	Solid	300.0	1938
LCS 880-1938/2-A	Lab Control Sample	Soluble	Solid	300.0	1938
LCSD 880-1938/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1938
880-1331-18 MS	H-18 (0"-6")	Soluble	Solid	300.0	1938
880-1331-18 MSD	H-18 (0"-6")	Soluble	Solid	300.0	1938
880-1331-28 MS	H-28 (0"-6")	Soluble	Solid	300.0	1938
880-1331-28 MSD	H-28 (0"-6")	Soluble	Solid	300.0	1938

Analysis Batch: 1977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-84	AH-8 (2'-2.5')	Soluble	Solid	300.0	1939
880-1331-86	AH-8 (3'-3.5)	Soluble	Solid	300.0	1939
880-1331-88	AH-8 (4'-4.5')	Soluble	Solid	300.0	1939
880-1331-90	AH-9 (0"-6")	Soluble	Solid	300.0	1939
880-1331-92	AH-9 (1'-1.5')	Soluble	Solid	300.0	1939
880-1331-94	AH-9 (2'-2.5')	Soluble	Solid	300.0	1939
880-1331-96	AH-9 (3'-3.5)	Soluble	Solid	300.0	1939
880-1331-98	AH-9 (4'-4.5')	Soluble	Solid	300.0	1939
880-1331-99	AH-10 (0"-6")	Soluble	Solid	300.0	1939
880-1331-101	AH-10 (1'-1.5')	Soluble	Solid	300.0	1939
880-1331-103	AH-10 (2'-2.5')	Soluble	Solid	300.0	1939
880-1331-105	AH-10 (3'-3.5')	Soluble	Solid	300.0	1939

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 1977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-107	AH-10 (4'-4.5')	Soluble	Solid	300.0	1939
880-1331-109	AH-11 (0"-6")	Soluble	Solid	300.0	1939
880-1331-111	AH-11 (1'-1.5')	Soluble	Solid	300.0	1939
880-1331-113	AH-11 (2'-2.5')	Soluble	Solid	300.0	1939
880-1331-115	AH-11 (3.-3.5')	Soluble	Solid	300.0	1939
880-1331-118	AH-12 (0"-6")	Soluble	Solid	300.0	1939
880-1331-122	AH-14 (0"-6")	Soluble	Solid	300.0	1939
880-1331-124	AH-14 (1'-1.5')	Soluble	Solid	300.0	1939
MB 880-1939/1-A	Method Blank	Soluble	Solid	300.0	1939
LCS 880-1939/2-A	Lab Control Sample	Soluble	Solid	300.0	1939
LCSD 880-1939/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1939
880-1331-84 MS	AH-8 (2'-2.5')	Soluble	Solid	300.0	1939
880-1331-84 MSD	AH-8 (2'-2.5')	Soluble	Solid	300.0	1939
880-1331-103 MS	AH-10 (2'-2.5')	Soluble	Solid	300.0	1939
880-1331-103 MSD	AH-10 (2'-2.5')	Soluble	Solid	300.0	1939

Analysis Batch: 1999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-126	AH-15 (0"-6")	Soluble	Solid	300.0	1940
880-1331-128	AH-15 (1'-1.5')	Soluble	Solid	300.0	1940
880-1331-129	AH-16 (0"-6")	Soluble	Solid	300.0	1940
880-1331-131	AH-17 (0"-6")	Soluble	Solid	300.0	1940
880-1331-133	AH-17 (1'-1.5')	Soluble	Solid	300.0	1940
880-1331-135	AH-18 (0"-6")	Soluble	Solid	300.0	1940
880-1331-137	AH-19 (0"-6")	Soluble	Solid	300.0	1940
880-1331-139	AH-20 (0"-6")	Soluble	Solid	300.0	1940
880-1331-141	AH-20 (1'-1.5')	Soluble	Solid	300.0	1940
880-1331-143	AH-20 (2'-2.5')	Soluble	Solid	300.0	1940
880-1331-145	AH-20 (3'-3.5')	Soluble	Solid	300.0	1940
880-1331-147	AH-20 (4'-4.5')	Soluble	Solid	300.0	1940
880-1331-149	AH-21 (0"-6")	Soluble	Solid	300.0	1940
880-1331-151	AH-21 (1'-1.5')	Soluble	Solid	300.0	1940
880-1331-153	AH-21 (2'-2.5')	Soluble	Solid	300.0	1940
880-1331-155	AH-21 (3'-3.5')	Soluble	Solid	300.0	1940
880-1331-157	AH-21 (4'-4.5')	Soluble	Solid	300.0	1940
880-1331-159	AH-22 (0"-6')	Soluble	Solid	300.0	1940
880-1331-161	AH-22 (1'-1.5')	Soluble	Solid	300.0	1940
880-1331-163	AH-22 (2'-2.5')	Soluble	Solid	300.0	1940
MB 880-1940/1-A	Method Blank	Soluble	Solid	300.0	1940
LCS 880-1940/2-A	Lab Control Sample	Soluble	Solid	300.0	1940
LCSD 880-1940/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1940
880-1331-126 MS	AH-15 (0"-6")	Soluble	Solid	300.0	1940
880-1331-126 MSD	AH-15 (0"-6")	Soluble	Solid	300.0	1940
880-1331-145 MS	AH-20 (3'-3.5')	Soluble	Solid	300.0	1940
880-1331-145 MSD	AH-20 (3'-3.5')	Soluble	Solid	300.0	1940

Analysis Batch: 2000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-165	AH-22 (3'-3.5')	Soluble	Solid	300.0	1941
880-1331-166	AH-23 (0"-6")	Soluble	Solid	300.0	1941
880-1331-167	AH-24 (0"-6")	Soluble	Solid	300.0	1941

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 2000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-169	AH-24 (1'-1.5')	Soluble	Solid	300.0	1941
880-1331-171	AH-24 (2'-2.5')	Soluble	Solid	300.0	1941
880-1331-172	AH-25 (0"-6")	Soluble	Solid	300.0	1941
880-1331-174	AH-26 (0"-6")	Soluble	Solid	300.0	1941
880-1331-176	AH-26 (1'-1.5')	Soluble	Solid	300.0	1941
880-1331-178	AH-26 (2'-2.5')	Soluble	Solid	300.0	1941
880-1331-179	AH-27 (0"-6")	Soluble	Solid	300.0	1941
880-1331-181	AH-27 (1'-1.5')	Soluble	Solid	300.0	1941
880-1331-183	AH-27 (2'-2.5')	Soluble	Solid	300.0	1941
880-1331-185	AH-27 (3'-3.5')	Soluble	Solid	300.0	1941
880-1331-187	AH-27 (4'-4.5')	Soluble	Solid	300.0	1941
880-1331-189	AH-28 (0"-6")	Soluble	Solid	300.0	1941
880-1331-191	AH-28 (1'-1.5')	Soluble	Solid	300.0	1941
880-1331-193	AH-28 (2'-2.5')	Soluble	Solid	300.0	1941
880-1331-195	AH-28 (3'-3.5')	Soluble	Solid	300.0	1941
880-1331-197	AH-29 (0"-6")	Soluble	Solid	300.0	1941
880-1331-199	AH-29 (1'-1.5')	Soluble	Solid	300.0	1941
MB 880-1941/1-A	Method Blank	Soluble	Solid	300.0	1941
LCS 880-1941/2-A	Lab Control Sample	Soluble	Solid	300.0	1941
LCSD 880-1941/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1941
880-1331-165 MS	AH-22 (3'-3.5')	Soluble	Solid	300.0	1941
880-1331-165 MSD	AH-22 (3'-3.5')	Soluble	Solid	300.0	1941
880-1331-181 MS	AH-27 (1'-1.5')	Soluble	Solid	300.0	1941
880-1331-181 MSD	AH-27 (1'-1.5')	Soluble	Solid	300.0	1941

Analysis Batch: 2014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-201	AH-29 (2'-2.5')	Soluble	Solid	300.0	1942
880-1331-203	AH-29 (3'-3.5')	Soluble	Solid	300.0	1942
880-1331-205	AH-30 (0"-6")	Soluble	Solid	300.0	1942
880-1331-207	AH-30 (1'-1.5')	Soluble	Solid	300.0	1942
880-1331-209	AH-30 (2'-2.5')	Soluble	Solid	300.0	1942
880-1331-211	AH-30 (3'-3.5")	Soluble	Solid	300.0	1942
880-1331-213	AH-30 (4'-4.5")	Soluble	Solid	300.0	1942
MB 880-1942/1-A	Method Blank	Soluble	Solid	300.0	1942
LCS 880-1942/2-A	Lab Control Sample	Soluble	Solid	300.0	1942
LCSD 880-1942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1942
880-1331-201 MS	AH-29 (2'-2.5')	Soluble	Solid	300.0	1942
880-1331-201 MSD	AH-29 (2'-2.5')	Soluble	Solid	300.0	1942

Analysis Batch: 2032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-54	AH-5 (0"-6")	Soluble	Solid	300.0	1945
880-1331-56	AH-5 (1'-1.5')	Soluble	Solid	300.0	1945
880-1331-58	AH-5 (2'-2.5')	Soluble	Solid	300.0	1945
880-1331-60	AH-5 (3'-3.5)	Soluble	Solid	300.0	1945
880-1331-62	AH-6 (0"-6")	Soluble	Solid	300.0	1945
880-1331-64	AH-6 (1'-1.5')	Soluble	Solid	300.0	1945
880-1331-66	AH-6 (2'-2.5')	Soluble	Solid	300.0	1945
880-1331-68	AH-6 (3'-3.5)	Soluble	Solid	300.0	1945
880-1331-70	AH-6 (4'-4.5')	Soluble	Solid	300.0	1945

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 2032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-72	AH-7 (0"-6")	Soluble	Solid	300.0	1945
880-1331-74	AH-7 (1'-1.5')	Soluble	Solid	300.0	1945
880-1331-76	AH-7 (2'-2.5')	Soluble	Solid	300.0	1945
880-1331-78	AH-7 (3'-3.5)	Soluble	Solid	300.0	1945
880-1331-80	AH-8 (0"-6")	Soluble	Solid	300.0	1945
880-1331-82	AH-8 (1'-1.5')	Soluble	Solid	300.0	1945
MB 880-1945/1-A	Method Blank	Soluble	Solid	300.0	1945
LCS 880-1945/2-A	Lab Control Sample	Soluble	Solid	300.0	1945
LCSD 880-1945/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1945
880-1331-54 MS	AH-5 (0"-6")	Soluble	Solid	300.0	1945
880-1331-54 MSD	AH-5 (0"-6")	Soluble	Solid	300.0	1945
880-1331-74 MS	AH-7 (1'-1.5')	Soluble	Solid	300.0	1945
880-1331-74 MSD	AH-7 (1'-1.5')	Soluble	Solid	300.0	1945

Analysis Batch: 2049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-1	H-1 (0"-6")	Soluble	Solid	300.0	1943
880-1331-2	H-2 (0"-6")	Soluble	Solid	300.0	1943
880-1331-3	H-3 (0"-6")	Soluble	Solid	300.0	1943
MB 880-1943/1-A	Method Blank	Soluble	Solid	300.0	1943
LCS 880-1943/2-A	Lab Control Sample	Soluble	Solid	300.0	1943
LCSD 880-1943/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1943

Analysis Batch: 2050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1331-45	AH-3 (0"-6")	Soluble	Solid	300.0	1944
880-1331-47	AH-3 (1'-1.5')	Soluble	Solid	300.0	1944
880-1331-49	AH-3 (2'-2.5')	Soluble	Solid	300.0	1944
880-1331-51	AH-3 (3'-3.5)	Soluble	Solid	300.0	1944
880-1331-53	AH-4 (0"-6")	Soluble	Solid	300.0	1944
MB 880-1944/1-A	Method Blank	Soluble	Solid	300.0	1944
LCS 880-1944/2-A	Lab Control Sample	Soluble	Solid	300.0	1944
LCSD 880-1944/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1944
880-1331-45 MS	AH-3 (0"-6")	Soluble	Solid	300.0	1944
880-1331-45 MSD	AH-3 (0"-6")	Soluble	Solid	300.0	1944

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-1 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 08:19	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 12:13	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 14:57	WP	XM

Client Sample ID: H-2 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 08:45	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 13:17	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:02	WP	XM

Client Sample ID: H-3 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 09:10	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 13:38	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:07	WP	XM

Client Sample ID: H-4 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 09:35	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 14:00	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 10:36	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-5 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 10:01	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 14:21	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 10:41	CH	XM

Client Sample ID: H-6 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 11:44	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 14:42	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 10:46	CH	XM

Client Sample ID: H-7 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 12:09	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 15:04	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 10:51	CH	XM

Client Sample ID: H-8 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 12:35	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 15:25	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 10:56	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-9 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 13:01	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 15:47	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 11:11	CH	XM

Client Sample ID: H-10 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 13:27	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 16:08	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 11:16	CH	XM

Client Sample ID: H-11 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 13:52	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 16:57	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 11:31	CH	XM

Client Sample ID: H-12 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 14:18	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 17:19	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 11:37	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-13 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 14:44	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 17:40	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 11:42	CH	XM

Client Sample ID: H-14 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 15:09	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 18:01	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 11:47	CH	XM

Client Sample ID: H-15 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1872	04/16/21 10:29	MR	XM
Total/NA	Analysis	8021B		1	1897	04/17/21 15:35	MR	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 18:22	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 11:52	CH	XM

Client Sample ID: H-16 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 19:40	KL	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 18:44	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 11:57	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-17 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 20:01	KL	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 19:05	AJ	XM
Soluble	Leach	DI Leach			1937	04/17/21 18:24	CH	XM
Soluble	Analysis	300.0		1	1962	04/19/21 12:02	CH	XM

Client Sample ID: H-18 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 20:22	KL	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 19:26	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 10:23	WP	XM

Client Sample ID: H-19 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 20:42	KL	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 19:48	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 10:38	WP	XM

Client Sample ID: H-20 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 21:03	KL	XM
Total/NA	Prep	8015NM Prep			1859	04/16/21 08:45	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 20:09	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 10:43	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-21 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 21:24	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 21:54	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 10:48	WP	XM

Client Sample ID: H-22 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 21:44	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 22:58	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 10:53	WP	XM

Client Sample ID: H-23 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 22:05	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 23:19	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 11:09	WP	XM

Client Sample ID: H-24 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 22:26	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/16/21 23:40	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 11:14	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-25 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/16/21 22:46	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 00:02	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 11:19	WP	XM

Client Sample ID: H-26 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 00:11	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 00:23	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 11:24	WP	XM

Client Sample ID: H-27 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 00:32	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 00:44	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 11:29	WP	XM

Client Sample ID: H-28 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 00:53	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 01:05	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 11:34	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: H-29 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 01:13	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 01:27	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 11:49	WP	XM

Client Sample ID: H-30 (0"-6")
Date Collected: 04/08/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 01:34	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 01:48	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 11:54	WP	XM

Client Sample ID: AH-1 (0"-6")
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 01:55	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 02:31	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		5	1964	04/20/21 09:13	WP	XM

Client Sample ID: AH-1 (1'-1.5')
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 02:15	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 02:51	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		1	1964	04/19/21 12:15	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-2 (0"-6")
Lab Sample ID: 880-1331-35
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 02:36	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 03:13	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		10	1964	04/19/21 12:20	WP	XM

Client Sample ID: AH-2 (1'-1.5')
Lab Sample ID: 880-1331-37
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1880	04/16/21 11:10	MR	XM
Total/NA	Analysis	8021B		1	1902	04/17/21 02:57	KL	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 03:34	AJ	XM
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		10	1964	04/19/21 12:25	WP	XM

Client Sample ID: AH-2 (2'-2.5')
Lab Sample ID: 880-1331-39
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		20	1964	04/19/21 12:30	WP	XM

Client Sample ID: AH-2 (3'-3.5)
Lab Sample ID: 880-1331-41
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		20	1964	04/19/21 12:35	WP	XM

Client Sample ID: AH-2 (4'-4.5')
Lab Sample ID: 880-1331-43
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1938	04/17/21 18:27	CH	XM
Soluble	Analysis	300.0		10	1964	04/19/21 12:40	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-3 (0"-6")
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1975	04/19/21 11:01	MR	XM
Total/NA	Analysis	8021B		1	1974	04/19/21 20:10	MR	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 03:55	AJ	XM
Soluble	Leach	DI Leach			1944	04/17/21 18:39	CH	XM
Soluble	Analysis	300.0		10	2050	04/22/21 10:12	WP	XM

Client Sample ID: AH-3 (1'-1.5')
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1889	04/16/21 14:49	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 13:14	MR	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 04:16	AJ	XM
Soluble	Leach	DI Leach			1944	04/17/21 18:39	CH	XM
Soluble	Analysis	300.0		10	2050	04/22/21 10:35	WP	XM

Client Sample ID: AH-3 (2'-2.5')
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1944	04/17/21 18:39	CH	XM
Soluble	Analysis	300.0		10	2050	04/22/21 10:42	WP	XM

Client Sample ID: AH-3 (3'-3.5)
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1944	04/17/21 18:39	CH	XM
Soluble	Analysis	300.0		1	2050	04/22/21 10:50	WP	XM

Client Sample ID: AH-4 (0"-6")
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1889	04/16/21 14:49	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 13:35	MR	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 04:38	AJ	XM
Soluble	Leach	DI Leach			1944	04/17/21 18:39	CH	XM
Soluble	Analysis	300.0		10	2050	04/22/21 10:58	WP	XM

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-5 (0"-6")
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1889	04/16/21 14:49	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 13:55	MR	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 04:59	AJ	XM
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 12:48	CH	XM

Client Sample ID: AH-5 (1'-1.5')
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1889	04/16/21 14:49	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 14:15	MR	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 05:20	AJ	XM
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 13:04	CH	XM

Client Sample ID: AH-5 (2'-2.5')
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 13:10	CH	XM

Client Sample ID: AH-5 (3'-3.5)
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		1	2032	04/20/21 13:15	CH	XM

Client Sample ID: AH-6 (0"-6")
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-62
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1889	04/16/21 14:49	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 14:36	MR	XM
Total/NA	Prep	8015NM Prep			1860	04/16/21 08:59	DM	XM
Total/NA	Analysis	8015B NM		1	1865	04/17/21 05:41	AJ	XM
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 13:21	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-6 (1'-1.5')
Lab Sample ID: 880-1331-64
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 16:43	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 15:09	AJ	XM
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 13:37	CH	XM

Client Sample ID: AH-6 (2'-2.5')
Lab Sample ID: 880-1331-66
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 13:43	CH	XM

Client Sample ID: AH-6 (3'-3.5)
Lab Sample ID: 880-1331-68
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 13:48	CH	XM

Client Sample ID: AH-6 (4'-4.5')
Lab Sample ID: 880-1331-70
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 13:54	CH	XM

Client Sample ID: AH-7 (0"-6")
Lab Sample ID: 880-1331-72
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 17:12	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 16:14	AJ	XM
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		110	2032	04/20/21 14:00	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-7 (1'-1.5')
Lab Sample ID: 880-1331-74
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 18:36	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 16:36	AJ	XM
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 14:05	CH	XM

Client Sample ID: AH-7 (2'-2.5')
Lab Sample ID: 880-1331-76
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		5	2032	04/20/21 14:22	CH	XM

Client Sample ID: AH-7 (3'-3.5)
Lab Sample ID: 880-1331-78
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		5	2032	04/20/21 14:27	CH	XM

Client Sample ID: AH-8 (0"-6")
Lab Sample ID: 880-1331-80
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 18:56	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 16:58	AJ	XM
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		10	2032	04/20/21 14:44	CH	XM

Client Sample ID: AH-8 (1'-1.5')
Lab Sample ID: 880-1331-82
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 19:17	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 17:19	AJ	XM
Soluble	Leach	DI Leach			1945	04/17/21 18:40	CH	XM
Soluble	Analysis	300.0		20	2032	04/20/21 14:49	CH	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-8 (2'-2.5')
Lab Sample ID: 880-1331-84
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 16:03	WP	XM

Client Sample ID: AH-8 (3'-3.5)
Lab Sample ID: 880-1331-86
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 16:20	WP	XM

Client Sample ID: AH-8 (4'-4.5')
Lab Sample ID: 880-1331-88
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		1	1977	04/19/21 16:26	WP	XM

Client Sample ID: AH-9 (0"-6")
Lab Sample ID: 880-1331-90
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 19:38	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 17:41	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		20	1977	04/19/21 16:31	WP	XM

Client Sample ID: AH-9 (1'-1.5')
Lab Sample ID: 880-1331-92
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 19:58	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 18:02	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		20	1977	04/20/21 09:02	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-9 (2'-2.5')
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-94
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 16:53	WP	XM

Client Sample ID: AH-9 (3'-3.5)
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-96
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 16:59	WP	XM

Client Sample ID: AH-9 (4'-4.5')
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-98
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		5	1977	04/19/21 17:04	WP	XM

Client Sample ID: AH-10 (0"-6")
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-99
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 20:19	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 18:24	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 17:10	WP	XM

Client Sample ID: AH-10 (1'-1.5')
Date Collected: 04/09/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-101
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 20:40	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 18:46	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		20	1977	04/19/21 17:15	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-10 (2'-2.5')
Lab Sample ID: 880-1331-103
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 17:21	WP	XM

Client Sample ID: AH-10 (3'-3.5')
Lab Sample ID: 880-1331-105
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 17:38	WP	XM

Client Sample ID: AH-10 (4'-4.5')
Lab Sample ID: 880-1331-107
Date Collected: 04/09/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		5	1977	04/19/21 17:43	WP	XM

Client Sample ID: AH-11 (0"-6")
Lab Sample ID: 880-1331-109
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 21:00	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 19:07	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		5	1977	04/19/21 18:00	WP	XM

Client Sample ID: AH-11 (1'-1.5')
Lab Sample ID: 880-1331-111
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 21:21	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 19:50	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 18:05	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-11 (2'-2.5')
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-113
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 18:11	WP	XM

Client Sample ID: AH-11 (3.-3.5')
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-115
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		10	1977	04/19/21 18:16	WP	XM

Client Sample ID: AH-12 (0"-6")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-118
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 21:42	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 20:12	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		1	1977	04/19/21 18:22	WP	XM

Client Sample ID: AH-14 (0"-6")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-122
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 19:27	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 20:33	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		1	1977	04/19/21 18:27	WP	XM

Client Sample ID: AH-14 (1'-1.5')
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-124
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 19:53	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 20:55	AJ	XM
Soluble	Leach	DI Leach			1939	04/17/21 18:29	CH	XM
Soluble	Analysis	300.0		1	1977	04/19/21 18:33	WP	XM

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-15 (0"-6")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-126
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 20:19	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 21:16	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 14:52	WP	XM

Client Sample ID: AH-15 (1'-1.5')
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-128
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 20:44	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 21:37	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 15:07	WP	XM

Client Sample ID: AH-16 (0"-6")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-129
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 21:10	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 21:59	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 15:12	WP	XM

Client Sample ID: AH-17 (0"-6")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-131
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 21:36	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 22:20	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		10	1999	04/19/21 15:18	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-17 (1'-1.5')

Lab Sample ID: 880-1331-133
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 22:01	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 22:41	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		5	1999	04/19/21 15:23	WP	XM

Client Sample ID: AH-18 (0"-6")

Lab Sample ID: 880-1331-135
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 22:27	KL	XM
Total/NA	Prep	8015NM Prep			1861	04/16/21 09:17	DM	XM
Total/NA	Analysis	8015B NM		1	1882	04/16/21 23:03	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 15:38	WP	XM

Client Sample ID: AH-19 (0"-6")

Lab Sample ID: 880-1331-137
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 22:53	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 15:09	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 15:43	WP	XM

Client Sample ID: AH-20 (0"-6")

Lab Sample ID: 880-1331-139
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/20/21 23:19	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 16:14	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 15:48	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-20 (1'-1.5')
Lab Sample ID: 880-1331-141
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 01:02	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 16:36	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		10	1999	04/19/21 15:53	WP	XM

Client Sample ID: AH-20 (2'-2.5')
Lab Sample ID: 880-1331-143
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		5	1999	04/19/21 15:58	WP	XM

Client Sample ID: AH-20 (3'-3.5')
Lab Sample ID: 880-1331-145
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 16:03	WP	XM

Client Sample ID: AH-20 (4'-4.5')
Lab Sample ID: 880-1331-147
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 16:19	WP	XM

Client Sample ID: AH-21 (0"-6")
Lab Sample ID: 880-1331-149
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 01:28	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 16:58	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		20	1999	04/19/21 16:24	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-21 (1'-1.5')
Lab Sample ID: 880-1331-151
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 01:54	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 17:19	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		10	1999	04/19/21 16:39	WP	XM

Client Sample ID: AH-21 (2'-2.5')
Lab Sample ID: 880-1331-153
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		10	1999	04/19/21 16:44	WP	XM

Client Sample ID: AH-21 (3'-3.5')
Lab Sample ID: 880-1331-155
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		10	1999	04/19/21 16:49	WP	XM

Client Sample ID: AH-21 (4'-4.5')
Lab Sample ID: 880-1331-157
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		10	1999	04/19/21 16:54	WP	XM

Client Sample ID: AH-22 (0"-6')
Lab Sample ID: 880-1331-159
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 02:19	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 17:41	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		10	1999	04/19/21 20:24	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-22 (1'-1.5')
Lab Sample ID: 880-1331-161
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 02:45	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 18:02	AJ	XM
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 17:01	WP	XM

Client Sample ID: AH-22 (2'-2.5')
Lab Sample ID: 880-1331-163
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1940	04/17/21 18:30	SC	XM
Soluble	Analysis	300.0		1	1999	04/19/21 17:06	WP	XM

Client Sample ID: AH-22 (3'-3.5')
Lab Sample ID: 880-1331-165
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		1	2000	04/19/21 18:02	WP	XM

Client Sample ID: AH-23 (0"-6")
Lab Sample ID: 880-1331-166
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 03:11	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 18:24	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 18:17	WP	XM

Client Sample ID: AH-24 (0"-6")
Lab Sample ID: 880-1331-167
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 03:37	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 18:46	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		5	2000	04/19/21 18:22	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-24 (1'-1.5')
Lab Sample ID: 880-1331-169
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 04:03	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 19:07	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		1	2000	04/19/21 18:27	WP	XM

Client Sample ID: AH-24 (2'-2.5')
Lab Sample ID: 880-1331-171
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		1	2000	04/19/21 18:32	WP	XM

Client Sample ID: AH-25 (0"-6")
Lab Sample ID: 880-1331-172
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 04:29	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 19:50	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		1	2000	04/19/21 18:47	WP	XM

Client Sample ID: AH-26 (0"-6")
Lab Sample ID: 880-1331-174
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1965	04/19/21 10:02	KL	XM
Total/NA	Analysis	8021B		1	2056	04/21/21 04:55	KL	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 20:12	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 18:53	WP	XM

Client Sample ID: AH-26 (1'-1.5')
Lab Sample ID: 880-1331-176
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 13:48	MR	XM

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-26 (1'-1.5')
Lab Sample ID: 880-1331-176
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 20:33	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 18:58	WP	XM

Client Sample ID: AH-26 (2'-2.5')
Lab Sample ID: 880-1331-178
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 19:03	WP	XM

Client Sample ID: AH-27 (0"-6")
Lab Sample ID: 880-1331-179
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 14:08	MR	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 20:55	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		5	2000	04/19/21 19:08	WP	XM

Client Sample ID: AH-27 (1'-1.5')
Lab Sample ID: 880-1331-181
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 14:28	MR	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 21:16	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		5	2000	04/19/21 19:13	WP	XM

Client Sample ID: AH-27 (2'-2.5')
Lab Sample ID: 880-1331-183
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 19:28	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-27 (3'-3.5')
Lab Sample ID: 880-1331-185
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 19:33	WP	XM

Client Sample ID: AH-27 (4'-4.5')
Lab Sample ID: 880-1331-187
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 19:49	WP	XM

Client Sample ID: AH-28 (0"-6")
Lab Sample ID: 880-1331-189
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 14:49	MR	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 21:37	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		5	2000	04/19/21 19:54	WP	XM

Client Sample ID: AH-28 (1'-1.5')
Lab Sample ID: 880-1331-191
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 15:09	MR	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 21:59	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 19:59	WP	XM

Client Sample ID: AH-28 (2'-2.5')
Lab Sample ID: 880-1331-193
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 20:04	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-28 (3'-3.5')
Lab Sample ID: 880-1331-195
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 20:09	WP	XM

Client Sample ID: AH-29 (0"-6")
Lab Sample ID: 880-1331-197
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 15:30	MR	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 22:20	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 20:14	WP	XM

Client Sample ID: AH-29 (1'-1.5')
Lab Sample ID: 880-1331-199
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 15:50	MR	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 22:41	AJ	XM
Soluble	Leach	DI Leach			1941	04/17/21 18:34	SC	XM
Soluble	Analysis	300.0		10	2000	04/19/21 20:19	WP	XM

Client Sample ID: AH-29 (2'-2.5')
Lab Sample ID: 880-1331-201
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		10	2014	04/19/21 17:47	WP	XM

Client Sample ID: AH-29 (3'-3.5')
Lab Sample ID: 880-1331-203
Date Collected: 04/14/21 00:00
Matrix: Solid
Date Received: 04/15/21 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		5	2014	04/19/21 18:03	WP	XM

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Client Sample ID: AH-30 (0"-6")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-205
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 16:11	MR	XM
Total/NA	Prep	8015NM Prep			1864	04/16/21 09:31	DM	XM
Total/NA	Analysis	8015B NM		1	1885	04/16/21 23:03	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		5	2014	04/19/21 18:08	WP	XM

Client Sample ID: AH-30 (1'-1.5')
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-207
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1985	04/19/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	2028	04/20/21 16:31	MR	XM
Total/NA	Prep	8015NM Prep			1894	04/16/21 12:09	DM	XM
Total/NA	Analysis	8015B NM		1	1923	04/17/21 19:12	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		10	2014	04/19/21 18:13	WP	XM

Client Sample ID: AH-30 (2'-2.5')
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-209
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		10	2014	04/19/21 18:18	WP	XM

Client Sample ID: AH-30 (3'-3.5")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-211
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		10	2014	04/19/21 18:33	WP	XM

Client Sample ID: AH-30 (4'-4.5")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 15:06

Lab Sample ID: 880-1331-213
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		10	2014	04/19/21 18:38	WP	XM

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 880-1331-1
Project/Site: Palmilla to State HU Line SDG: Eddy County, NM

Laboratory: Eurofins Xenco, Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1331-1	H-1 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-2	H-2 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-3	H-3 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-4	H-4 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-5	H-5 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-6	H-6 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-7	H-7 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-8	H-8 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-9	H-9 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-10	H-10 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-11	H-11 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-12	H-12 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-13	H-13 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-14	H-14 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-15	H-15 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-16	H-16 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-17	H-17 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-18	H-18 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-19	H-19 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-20	H-20 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-21	H-21 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-22	H-22 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-23	H-23 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-24	H-24 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-25	H-25 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-26	H-26 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-27	H-27 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-28	H-28 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-29	H-29 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-30	H-30 (0"-6")	Solid	04/08/21 00:00	04/15/21 15:06	
880-1331-31	AH-1 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-33	AH-1 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-35	AH-2 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-37	AH-2 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-39	AH-2 (2'-2.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-41	AH-2 (3'-3.5)	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-43	AH-2 (4'-4.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-45	AH-3 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-47	AH-3 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-49	AH-3 (2'-2.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-51	AH-3 (3'-3.5)	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-53	AH-4 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-54	AH-5 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-56	AH-5 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-58	AH-5 (2'-2.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-60	AH-5 (3'-3.5)	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-62	AH-6 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-64	AH-6 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-66	AH-6 (2'-2.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-68	AH-6 (3'-3.5)	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-70	AH-6 (4'-4.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-72	AH-7 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-74	AH-7 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1331-76	AH-7 (2'-2.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-78	AH-7 (3'-3.5)	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-80	AH-8 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-82	AH-8 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-84	AH-8 (2'-2.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-86	AH-8 (3'-3.5)	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-88	AH-8 (4'-4.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-90	AH-9 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-92	AH-9 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-94	AH-9 (2'-2.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-96	AH-9 (3'-3.5)	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-98	AH-9 (4'-4.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-99	AH-10 (0"-6")	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-101	AH-10 (1'-1.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-103	AH-10 (2'-2.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-105	AH-10 (3'-3.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-107	AH-10 (4'-4.5')	Solid	04/09/21 00:00	04/15/21 15:06	
880-1331-109	AH-11 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-111	AH-11 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-113	AH-11 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-115	AH-11 (3.-3.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-118	AH-12 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-122	AH-14 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-124	AH-14 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-126	AH-15 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-128	AH-15 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-129	AH-16 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-131	AH-17 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-133	AH-17 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-135	AH-18 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-137	AH-19 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-139	AH-20 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-141	AH-20 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-143	AH-20 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-145	AH-20 (3'-3.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-147	AH-20 (4'-4.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-149	AH-21 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-151	AH-21 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-153	AH-21 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-155	AH-21 (3'-3.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-157	AH-21 (4'-4.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-159	AH-22 (0"-6')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-161	AH-22 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-163	AH-22 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-165	AH-22 (3'-3.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-166	AH-23 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-167	AH-24 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-169	AH-24 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-171	AH-24 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-172	AH-25 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-174	AH-26 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-176	AH-26 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-178	AH-26 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to State HU Line

Job ID: 880-1331-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1331-179	AH-27 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-181	AH-27 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-183	AH-27 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-185	AH-27 (3'-3.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-187	AH-27 (4'-4.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-189	AH-28 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-191	AH-28 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-193	AH-28 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-195	AH-28 (3'-3.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-197	AH-29 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-199	AH-29 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-201	AH-29 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-203	AH-29 (3'-3.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-205	AH-30 (0"-6")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-207	AH-30 (1'-1.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-209	AH-30 (2'-2.5')	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-211	AH-30 (3'-3.5")	Solid	04/14/21 00:00	04/15/21 15:06	
880-1331-213	AH-30 (4'-4.5")	Solid	04/14/21 00:00	04/15/21 15:06	

Page 224 of 703

Analysis Request of Chain of Custody Record

880-1331 Chain of Custody

Page 1 of 2

Tetra Tech. Inc.

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

880-1331

Client Name:	Solaris	**Site Manager:**	Brittany Long
Project Name:	Palmilla to State HU Line		
Project Location: (county, state)	Eddy County, NM	**Project #:**	212C-MD-02473
Invoice to:	Tetra Tech, Inc. Attention: Brittany Long		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Colton Bickerstaff
Comments:	Standard TAT		

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	H-1 (0"-6")	4/8/2021			X			X	1		X		X												X					
	H-2 (0"-6")	4/8/2021			X			X	1		X		X												X					
	H-3 (0'-6")	4/8/2021			X			X	1		X		X												X					
	H-4 (0"-6")	4/8/2021			X			X	1		X		X												X					
	H-5 (0"-6")	4/8/2021			X			X	1		X		X												X					
	H-6 (0"-6")	4/8/2021			X			X	1		X		X												X					
	H-7 (0"-6")	4/8/2021			X			X	1		X		X												X					
	H-8 (0"-6")	4/8/2021			X			X	1		X		X												X					
	H-9 (0"-6")	4/8/2021			X			X	1		X		X												X					
	H-10 (0"-6")	4/8/2021			X			X	1		X		X												X					

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Colton Bickerstaff	4/15/21		K.Q	4.15.21	15:06
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature
2.3 / 2.8
+0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 144 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

4/22/2021

Page 225 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	H-11 (0"-6")	4/8/2021			X			X			X		X												X					
	H-12 (0"-6")	4/8/2021			X			X			X		X												X					
	H-13 (0"-6")	4/8/2021			X			X			X		X												X					
	H-14 (0"-6")	4/8/2021			X			X			X		X												X					
	H-15 (0"-6")	4/8/2021			X			X			X		X												X					
	H-16 (0"-6")	4/8/2021			X			X			X		X												X					
	H-17 (0"-6")	4/8/2021			X			X			X		X												X					
	H-18 (0"-6")	4/8/2021			X			X			X		X												X					
	H-19 (0"-6")	4/8/2021			X			X			X		X												X					
	H-20 (0"-6")	4/8/2021			X			X			X		X												X					

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4-15-21 Time: 15:06

LAB USE ONLY

Sample Temperature
4 ~~5~~ KP
2.3 / 2.8
+0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 145 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 226 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech. Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos				Hold
	H-21 (0"-6")	4/8/2021			X			X	1		X		X												X								
	H-22 (0"-6")	4/8/2021			X			X			X		X												X								
	H-23 (0"-6")	4/8/2021			X			X			X		X												X								
	H-24 (0"-6")	4/8/2021			X			X			X		X												X								
	H-25 (0"-6")	4/8/2021			X			X			X		X												X								
	H-26 (0"-6")	4/8/2021			X			X			X		X												X								
	H-27 (0"-6")	4/8/2021			X			X			X		X												X								
	H-28 (0"-6")	4/8/2021			X			X			X		X												X								
	H-29 (0"-6")	4/8/2021			X			X			X		X												X								
	H-30 (0"-6")	4/8/2021			X			X			X		X												X								

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 4/15/21 Time: 15:06

Date: Time:

Date: Time:

LAB USE ONLY

Sample Temperature 2.3 | 2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 146 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 227 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	AH-1 (0"-6")	4/9/2021			X			X	1		X		X												X					
	AH-1 (6"-12")	4/9/2021			X			X	1		X		X												X					
	AH-1 (1'-1.5')	4/9/2021			X			X	1		X		X												X					
	AH-1 (1.5'-2')	4/9/2021			X			X	1		X		X												X					
	AH-2 (0"-6")	4/9/2021			X			X	1		X		X												X					
	AH-2 (6"-12")	4/9/2021			X			X	1		X		X												X					
	AH-2 (1'-1.5')	4/9/2021			X			X	1		X		X												X					
	AH-2 (1.5'-2')	4/9/2021			X			X	1		X		X												X					
	AH-2 (2'-2.5')	4/9/2021			X			X	1		X		X												X					
	AH-2 (2.5'-3')	4/9/2021			X			X	✓		X		X												X					

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4.15.21 Time: 15:06

LAB USE ONLY

Sample Temperature 2.3 | 2.8 | 0.5

REMARKS:

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 147 of 188

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 228 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-2 (3'-3.5')	4/9/2021			X			X	1		X		X												X							
	AH-2 (3.5'-4')	4/9/2021			X			X			X		X												X							
	AH-2 (4'-4.5')	4/9/2021			X			X			X		X												X							
	AH-2 (4.5'-5')	4/9/2021			X			X			X		X												X							
	AH-3 (0"-6")	4/9/2021			X			X			X		X												X							
	AH-3 (6"-12")	4/9/2021			X			X			X		X												X							
	AH-3 (1'-1.5')	4/9/2021			X			X			X		X												X							
	AH-3 (1.5'-2')	4/9/2021			X			X			X		X												X							
	AH-3 (2'-2.5')	4/9/2021			X			X			X		X												X							
	AH-3 (2.5'-3')	4/9/2021			X			X			X		X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4-15-21 Time: 15:06

LAB USE ONLY

Sample Temperature 2.3/2.8 +0.5

REMARKS:

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 148 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 229 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech. Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-3 (3'-3.5')	4/9/2021			X			X			X		X												X							
	AH-3 (3.5'-4')	4/9/2021			X			X			X		X												X							
	AH-4 (0"-6")	4/9/2021			X			X			X		X												X							
	AH-5 (0"-6")	4/9/2021			X			X			X		X												X							
	AH-5 (6"-12")	4/9/2021			X			X			X		X												X							
	AH-5 (1'-1.5')	4/9/2021			X			X			X		X												X							
	AH-5 (1.5'-2')	4/9/2021			X			X			X		X												X							
	AH-5 (2'-2.5')	4/9/2021			X			X			X		X												X							
	AH-5 (2.5'-3')	4/9/2021			X			X			X		X												X							
	AH-5 (3'-3.5')	4/9/2021			X			X			X		X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature] Date: 4.15.21 Time: 15:06
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 2.3/2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 149 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 230 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-5 (3.5'-4')	4/9/2021			X			X	1		X		X												X							
	AH-6 (0"-6")	4/9/2021			X			X			X		X												X							
	AH-6 (6"-12")	4/9/2021			X			X			X		X												X							
	AH-6 (1'-1.5')	4/9/2021			X			X			X		X												X							
	AH-6 (1.5'-2')	4/9/2021			X			X			X		X												X							
	AH-6 (2'-2.5')	4/9/2021			X			X			X		X												X							
	AH-6 (2.5'-3')	4/9/2021			X			X			X		X												X							
	AH-6 (3'-3.5')	4/9/2021			X			X			X		X												X							
	AH-6 (3.5'-4')	4/9/2021			X			X			X		X												X							
	AH-6 (4'-4.5')	4/9/2021			X			X			X		X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/22	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4.15.21 Time: 15:06

LAB USE ONLY

Sample Temperature 2.3/2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 150 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 231 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	BTEX 8260B / TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-6 (4.5'-5')	4/9/2021			X				X					X		X												X							
	AH-7 (0"-6")	4/9/2021			X				X					X		X												X							
	AH-7 (6"-12")	4/9/2021			X				X					X		X												X							
	AH-7 (1'-1.5')	4/9/2021			X				X					X		X												X							
	AH-7 (1.5'-2')	4/9/2021			X				X					X		X												X							
	AH-7 (2'-2.5')	4/9/2021			X				X					X		X												X							
	AH-7 (2.5'-3')	4/9/2021			X				X					X		X												X							
	AH-7 (3'-3.5')	4/9/2021			X				X					X		X												X							
	AH-7 (3.5'-4')	4/9/2021			X				X					X		X												X							
	AH-8 (0"-6")	4/9/2021			X				X					X		X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4.15.21 Time: 15:06

LAB USE ONLY

Sample Temperature 2.3/2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 151 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 232 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	AH-8 (6"-12")	4/9/2021			X			X			X		X													X							
	AH-8 (1'-1.5')	4/9/2021			X			X			X		X													X							
	AH-8 (1.5'-2')	4/9/2021			X			X			X		X													X							
	AH-8 (2'-2.5')	4/9/2021			X			X			X		X													X							
	AH-8 (2.5'-3')	4/9/2021			X			X			X		X													X							
	AH-8 (3'-3.5')	4/9/2021			X			X			X		X													X							
	AH-8 (3.5'-4')	4/9/2021			X			X			X		X													X							
	AH-8 (4'-4.5')	4/9/2021			X			X			X		X													X							
	AH-8 (4.5'-5')	4/9/2021			X			X			X		X													X							
	AH-9 (0"-6")	4/9/2021			X			X			✓		X													X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by:	Date: 4.15.21	Time: 1506
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 2.3 | 2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 152 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 233 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	AH-9 (6"-12")	4/9/2021			X			X	1		X		X												X					
	AH-9 (1'-1.5')	4/9/2021			X			X			X		X												X					
	AH-9 (1.5'-2')	4/9/2021			X			X			X		X												X					
	AH-9 (2'-2.5')	4/9/2021			X			X			X		X												X					
	AH-9 (2.5'-3')	4/9/2021			X			X			X		X												X					
	AH-9 (3'-3.5')	4/9/2021			X			X			X		X												X					
	AH-9 (3.5'-4')	4/9/2021			X			X			X		X												X					
	AH-9 (4'-4.5')	4/9/2021			X			X			X		X												X					
	AH-10 (0"-6")	4/9/2021			X			X			X		X												X					
	AH-10 (6"-12")	4/9/2021			X			X		V		X		X												X					

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature] Date: 4.15.21 Time: 15:06
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 2.3/2.8 / +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 153 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 234 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff

Comments: Standard TAT

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	AH-10 (1'-1.5')	4/9/2021			X			X	1			X		X												X						
	AH-10 (1.5'-2')	4/9/2021			X			X				X		X												X						
	AH-10 (2'-2.5')	4/9/2021			X			X				X		X												X						
	AH-10 (2.5'-3')	4/9/2021			X			X				X		X												X						
	AH-10 (3'-3.5')	4/9/2021			X			X				X		X												X						
	AH-10 (3.5'-4')	4/9/2021			X			X				X		X												X						
	AH-10 (4'-4.5')	4/9/2021			X			X				X		X												X						
	AH-10 (4.5'-5')	4/9/2021			X			X				X		X												X						
	AH-11 (0"-6")	4/14/2021			X			X				X		X												X						
	AH-11 (6"-12")	4/14/2021			X			X				X		X												X						

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by:	Date: 4.15.21	Time: 15:06
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 2.3 | 2.8 +0.5

REMARKS:

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 154 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 235 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-11 (1'-1.5')	4/14/2021			X			X	1		X		X												X							
	AH-11 (1.5'-2')	4/14/2021			X			X	1		X		X												X							
	AH-11 (2'-2.5')	4/14/2021			X			X	1		X		X												X							
	AH-11 (2.5'-3')	4/14/2021			X			X	1		X		X												X							
	AH-11 (3'-3.5')	4/14/2021			X			X	1		X		X												X							
	AH-11 (3.5'-4')	4/14/2021			X			X	1		X		X												X							
	AH-11 (4'-4.5')	4/14/2021			X			X	1		X		X												X							
	AH-12 (0"-6")	4/14/2021			X			X	1		X		X												X							
	AH-12 (6"-12")	4/14/2021			X			X	1		X		X												X							
	AH-13 (0"-6")	4/14/2021			X			X	1		X		X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4-15-21 Time: 15:06

LAB USE ONLY

Sample Temperature 2.3 | 2.8 | +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 135 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 236 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos				Hold
	AH-13 (6"-12")	4/14/2021			X			X	1			X		X												X										
	AH-14 (0"-6")	4/14/2021			X			X	1			X		X												X										
	AH-14 (6"-12")	4/14/2021			X			X	1			X		X												X										
	AH-14 (1'-1.5')	4/14/2021			X			X	1			X		X												X										
	AH-14 (1.5'-2')	4/14/2021			X			X	1			X		X												X										
	AH-15 (0"-6")	4/14/2021			X			X	1			X		X												X										
	AH-15 (6"-12")	4/14/2021			X			X	1			X		X												X										
	AH-15 (1'-1.5')	4/14/2021			X			X	1			X		X												X										
	AH-16 (0"-6")	4/14/2021			X			X	1			X		X												X										
	AH-16 (6"-12")	4/14/2021			X			X	1			X		X												X										

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by:	Date: 4.15.21	Time: 15:06
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 2.3/2.8 +0.5

REMARKS:

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 156 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 237 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos				Hold
	AH-17 (0"-6")	4/14/2021			X			X	1			X		X												X								
	AH-17 (6"-12")	4/14/2021			X			X				X		X												X								
	AH-17 (1'-1.5')	4/14/2021			X			X				X		X												X								
	AH-17 (1.5'-2')	4/14/2021			X			X				X		X												X								
	AH-18 (0"-6")	4/14/2021			X			X				X		X												X								
	AH-18 (6"-12")	4/14/2021			X			X				X		X												X								
	AH-19 (0"-6")	4/14/2021			X			X				X		X												X								
	AH-19 (6"-12")	4/14/2021			X			X				X		X												X								
	AH-20 (0"-6")	4/14/2021			X			X				X		X												X								
	AH-20 (6"-12")	4/14/2021			X			X				X		X												X								

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4.15.21 Time: 15:06

Date: Time:

Date: Time:

LAB USE ONLY

Sample Temperature 2.3/2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 157 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 238 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	TIME	MATRIX WATER	SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	AH-20 (1'-1.5')	4/14/2021			X			X	1			X		X												X								
	AH-20 (1.5'-2')	4/14/2021			X			X				X		X													X								
	AH-20 (2'-2.5')	4/14/2021			X			X				X		X													X								
	AH-20 (2.5'-3')	4/14/2021			X			X				X		X													X								
	AH-20 (3'-3.5')	4/14/2021			X			X				X		X													X								
	AH-20 (3.5'-4')	4/14/2021			X			X				X		X													X								
	AH-20 (4'-4.5')	4/14/2021			X			X				X		X													X								
	AH-20 (4.5'-5')	4/14/2021			X			X				X		X													X								
	AH-21 (0"-6")	4/14/2021			X			X				X		X													X								
	AH-21 (6"-12")	4/14/2021			X			X				X		X													X								

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4.15.21 Time: 15:06

LAB USE ONLY

Sample Temperature 2.3 | 2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 150 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

4/22/2021

Page 239 of 703

Analysis Request of Chain of Custody Record

Page 16 of 22

Tetra Tech, Inc.

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

Client Name: Solaris	Site Manager: Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	Sampler Signature: Colton Bickerstaff
Comments: Standard TAT	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	AH-21 (1'-1.5')	4/14/2021			X			X	1		X		X												X					
	AH-21 (1.5'-2')	4/14/2021			X			X	1		X		X												X					
	AH-21 (2'-2.5')	4/14/2021			X			X	1		X		X												X					
	AH-21 (2.5'-3')	4/14/2021			X			X	1		X		X												X					
	AH-21 (3'-3.5')	4/14/2021			X			X	1		X		X												X					
	AH-21 (3.5'-4')	4/14/2021			X			X	1		X		X												X					
	AH-21 (4'-4.5')	4/14/2021			X			X	1		X		X												X					
	AH-21 (4.5'-5')	4/14/2021			X			X	1		X		X												X					
	AH-22 (0"-6")	4/14/2021			X			X	1		X		X												X					
	AH-22 (6"-12")	4/14/2021			X			X	V		X		X												X					

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: KM	Date: 4.15.21 Time: 15:06
Relinquished by:	Date:	Time:	Received by:	Date: Time:
Relinquished by:	Date:	Time:	Received by:	Date: Time:

LAB USE ONLY

Sample Temperature 2.3 | 2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 159 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

4/22/2021

Page 240 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	AH-22 (1'-1.5')	4/14/2021			X			X	1		X		X													X						
	AH-22 (1.5'-2')	4/14/2021			X			X	1		X		X													X						
	AH-22 (2'-2.5')	4/14/2021			X			X	1		X		X													X						
	AH-22 (2.5'-3')	4/14/2021			X			X	1		X		X													X						
	AH-22 (3'-3.5')	4/14/2021			X			X	1		X		X													X						
	AH-23 (0"-6")	4/14/2021			X			X	1		X		X													X						
	AH-24 (0"-6")	4/14/2021			X			X	1		X		X													X						
	AH-24 (6"-12")	4/14/2021			X			X	1		X		X													X						
	AH-24 (1'-1.5')	4/14/2021			X			X	1		X		X													X						
	AH-24 (1.5'-2')	4/14/2021			X			X	↓		X		X													X						

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature] Date: 4.15.21 Time: 15:06
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 2.3 | 2.8 +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 160 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 241 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name:	Solaris	**Site Manager:**	Brittany Long
Project Name:	Palmilla to State HU Line		
Project Location: (county, state)	Eddy County, NM	**Project #:**	212C-MD-02473
Invoice to:	Tetra Tech, Inc. Attention: Brittany Long		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Colton Bickerstaff
Comments:	Standard TAT		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	BTEX 8260B	Hold
	AH-24 (2'-2.5')	4/14/2021			X			X			X		X												X							
	AH-25 (0"-6")	4/14/2021			X			X			X		X												X							
	AH-25 (6"-12")	4/14/2021			X			X			X		X												X							
	AH-26 (0"-6")	4/14/2021			X			X			X		X												X							
	AH-26 (6"-12")	4/14/2021			X			X			X		X												X							
	AH-26 (1'-1.5')	4/14/2021			X			X			X		X												X							
	AH-26 (1.5'-2')	4/14/2021			X			X			X		X												X							
	AH-26 (2'-2.5')	4/14/2021			X			X			X		X												X							
	AH-27 (0"-6")	4/14/2021			X			X			X		X												X							
	AH-27 (6"-12")	4/14/2021			X			X		✓			X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by:	Date: 4.15.21	Time: 15:06
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 2.3/2.8 10.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Page 161 of 166

Released to Imaging: 10/17/2022 12:02:07 PM

4/22/2021

Page 242 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name:	Solaris	**Site Manager:**	Brittany Long
Project Name:	Palmilla to State HU Line		
Project Location: (county, state)	Eddy County, NM	**Project #:**	212C-MD-02473
Invoice to:	Tetra Tech, Inc. Attention: Brittany Long		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Colton Bickerstaff
Comments:	Standard TAT		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-27 (1'-1.5')	4/14/2021			X			X	1		X		X												X							
	AH-27 (1.5'-2')	4/14/2021			X			X	1		X		X												X							
	AH-27 (2'-2.5')	4/14/2021			X			X	1		X		X												X							
	AH-27 (2.5'-3')	4/14/2021			X			X	1		X		X												X							
	AH-27 (3'-3.5')	4/14/2021			X			X	1		X		X												X							
	AH-27 (3.5'-4')	4/14/2021			X			X	1		X		X												X							
	AH-27 (4'-4.5')	4/14/2021			X			X	1		X		X												X							
	AH-27 (4.5'-5')	4/14/2021			X			X	1		X		X												X							
	AH-28 (0"-6")	4/14/2021			X			X	1		X		X												X							
	AH-28 (6"-12")	4/14/2021			X			X	✓		X		X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: KAP	Date: 4.15.21	Time: 1506
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 2.3 | 2.8 | +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 162 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 243 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech, Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-28 (1'-1.5')	4/14/2021			X			X			X		X												X							
	AH-28 (1.5'-2')	4/14/2021			X			X			X		X												X							
	AH-28 (2'-2.5')	4/14/2021			X			X			X		X												X							
	AH-28 (2.5'-3')	4/14/2021			X			X			X		X												X							
	AH-28 (3'-3.5')	4/14/2021			X			X			X		X												X							
	AH-28 (3.5'-4')	4/14/2021			X			X			X		X												X							
	AH-29 (0"-6")	4/14/2021			X			X			X		X												X							
	AH-29 (6"-12")	4/14/2021			X			X			X		X												X							
	AH-29 (1'-1.5')	4/14/2021			X			X			X		X												X							
	AH-29 (1.5'-2')	4/14/2021			X			X		✓		X	X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 4.15.21 Time: 15:06

LAB USE ONLY

Sample Temperature 2.3 | 2.8 | 10.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 163 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 244 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech. Inc.

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

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to State HU Line	
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc. Attention: Brittany Long	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Colton Bickerstaff
Comments: Standard TAT	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-29 (2'-2.5')	4/14/2021			X			X	1			X		X												X							
	AH-29 (2.5'-3')	4/14/2021			X			X				X		X												X							
	AH-29 (3'-3.5')	4/14/2021			X			X				X		X												X							
	AH-29 (3.5'-4')	4/14/2021			X			X				X		X												X							
	AH-30 (0"-6")	4/14/2021			X			X				X		X												X							
	AH-30 (6"-12")	4/14/2021			X			X				X		X												X							
	AH-30 (1'-1.5')	4/14/2021			X			X				X		X												X							
	AH-30 (1.5'-2')	4/14/2021			X			X				X		X												X							
	AH-30 (2'-2.5')	4/14/2021			X			X				X		X												X							
	AH-30 (2.5'-3')	4/14/2021			X			X		✓		X		X												X							

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 4.15.21 Time: 15:06

LAB USE ONLY

Sample Temperature 2.3 | 2.8
+0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 104 of 106

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 245 of 703

Analysis Request of Chain of Custody Record

4/22/2021

Tetra Tech. Inc.

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

Client Name:	Solaris	**Site Manager:**	Brittany Long
Project Name:	Palmilla to State HU Line		
Project Location: (county, state)	Eddy County, NM	**Project #:**	212C-MD-02473
Invoice to:	Tetra Tech, Inc. Attention: Brittany Long		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Colton Bickerstaff
Comments:	Standard TAT		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
	AH-30 (3'-3.5')	4/14/2021			X			X	1		X		X												X							
	AH-30 (3.5'-4')	4/14/2021			X			X	1		X		X												X							
	AH-30 (4'-4.5')	4/14/2021			X			X	1		X		X												X							
										✓																						

Relinquished by: Colton Bickerstaff	Date: 4/15/21	Time:	Received by:	Date: 4.15.21	Time: 15:06
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 2.3 | 2.8 | +0.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 165 of 166

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-1331-1
SDG Number: Eddy County, NM

Login Number: 1331
List Number: 1
Creator: Phillips, Kerianna

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-2437-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: Solaris Palmilla to St HU Line

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

Attn: Brittany Long

JKramer

Authorized for release by:
6/29/2022 11:38:57 AM

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 30
QC Sample Results 32
QC Association Summary 41
Lab Chronicle 49
Certification Summary 59
Method Summary 60
Sample Summary 61
Chain of Custody 62
Receipt Checklists 66

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2437-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Job ID: 890-2437-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2437-1

Receipt
The samples were received on 6/20/2022 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

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

GC Semi VOA
Method 8015MOD_NM: The method blank for preparation batch 880-28102 and analytical batch 880-28084 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-28095 and analytical batch 880-28090 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike (MS) recoveries for preparation batch 880-28142 and analytical batch 880-28230 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28155 and 880-28155 and analytical batch 880-28231 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 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28155 and analytical batch 880-28231 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-1 4

Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 4

Lab Sample ID: 890-2437-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/22/22 13:27	06/23/22 22:29	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/22/22 13:27	06/23/22 22:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/22/22 13:27	06/23/22 22:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/23/22 22:29	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/22/22 13:27	06/23/22 22:29	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/23/22 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/22/22 13:27*	*06/23/22 22:29*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/22/22 13:27*	*06/23/22 22:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**40.2**	**J**	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**40.2**	**J**	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 14:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 14:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/22/22 09:41*	*06/22/22 14:52*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/22/22 09:41*	*06/22/22 14:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.4**	**F1**	4.97	0.853	mg/Kg			06/26/22 11:01	1

Client Sample ID: BH-2 4

Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 4

Lab Sample ID: 890-2437-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/22/22 13:27	06/23/22 22:50	1
Toluene	**0.000535**	**J**	0.00199	0.000453	mg/Kg		06/22/22 13:27	06/23/22 22:50	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		06/22/22 13:27	06/23/22 22:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/23/22 22:50	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		06/22/22 13:27	06/23/22 22:50	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/23/22 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/22/22 13:27*	*06/23/22 22:50*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-2 4

Lab Sample ID: 890-2437-2
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/22/22 13:27*	*06/23/22 22:50*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**39.3**	**J**	49.9	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**39.3**	**J**	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 15:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 15:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*104*		*70 - 130*	*06/22/22 09:41*	*06/22/22 15:13*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/22/22 09:41*	*06/22/22 15:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.2**		4.95	0.850	mg/Kg			06/26/22 11:25	1

Client Sample ID: BH-3 4

Lab Sample ID: 890-2437-3
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/22/22 13:27	06/23/22 23:10	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/22/22 13:27	06/23/22 23:10	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/22/22 13:27	06/23/22 23:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/23/22 23:10	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/22/22 13:27	06/23/22 23:10	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/23/22 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/22/22 13:27*	*06/23/22 23:10*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/22/22 13:27*	*06/23/22 23:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.9**		49.8	14.9	mg/Kg			06/22/22 17:01	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2437-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Client Sample ID: BH-3 4 — Lab Sample ID: 890-2437-3

Date Collected: 06/17/22 00:00 **Matrix: Solid**
Date Received: 06/20/22 16:30
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.9	J	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 15:34	1
Diesel Range Organics (Over C10-C28)	15.0	J B	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 15:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*06/22/22 09:41*	*06/22/22 15:34*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/22/22 09:41*	*06/22/22 15:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.9		4.97	0.853	mg/Kg			06/26/22 11:32	1

Client Sample ID: BH-4 4 — Lab Sample ID: 890-2437-4

Date Collected: 06/17/22 00:00 **Matrix: Solid**
Date Received: 06/20/22 16:30
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		06/22/22 13:27	06/23/22 23:31	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		06/22/22 13:27	06/23/22 23:31	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		06/22/22 13:27	06/23/22 23:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		06/22/22 13:27	06/23/22 23:31	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		06/22/22 13:27	06/23/22 23:31	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		06/22/22 13:27	06/23/22 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/22/22 13:27*	*06/23/22 23:31*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/22/22 13:27*	*06/23/22 23:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.0	J	49.8	14.9	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.0	J	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 15:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 15:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/22/22 09:41*	*06/22/22 15:56*	*1*
o-Terphenyl	*111*		*70 - 130*	*06/22/22 09:41*	*06/22/22 15:56*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-4 4

Lab Sample ID: 890-2437-4
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.6**		5.04	0.865	mg/Kg			06/26/22 11:40	1

Client Sample ID: BH-5 4

Lab Sample ID: 890-2437-5
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/22/22 13:27	06/23/22 23:51	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/22/22 13:27	06/23/22 23:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/22/22 13:27	06/23/22 23:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/23/22 23:51	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/22/22 13:27	06/23/22 23:51	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/23/22 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/22/22 13:27*	*06/23/22 23:51*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/22/22 13:27*	*06/23/22 23:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**75.1**		50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**26.9**	**J**	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 16:43	1
Diesel Range Organics (Over C10-C28)	**48.2**	**J B**	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 16:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/22/22 09:41*	*06/22/22 16:43*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/22/22 09:41*	*06/22/22 16:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.6**		4.99	0.857	mg/Kg			06/26/22 11:48	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-6 4

Lab Sample ID: 890-2437-6
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/22/22 13:27	06/24/22 00:11	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		06/22/22 13:27	06/24/22 00:11	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		06/22/22 13:27	06/24/22 00:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/24/22 00:11	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		06/22/22 13:27	06/24/22 00:11	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/24/22 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/22/22 13:27*	*06/24/22 00:11*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/22/22 13:27*	*06/24/22 00:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**28.2**	**J**	49.9	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**28.2**	**J**	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/22/22 09:41*	*06/22/22 17:04*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/22/22 09:41*	*06/22/22 17:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.1**		4.96	0.851	mg/Kg			06/26/22 12:12	1

Client Sample ID: BH-7 5

Lab Sample ID: 890-2437-7
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/22/22 13:27	06/24/22 00:32	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		06/22/22 13:27	06/24/22 00:32	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		06/22/22 13:27	06/24/22 00:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		06/22/22 13:27	06/24/22 00:32	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		06/22/22 13:27	06/24/22 00:32	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		06/22/22 13:27	06/24/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/22/22 13:27*	*06/24/22 00:32*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-7 5

Lab Sample ID: 890-2437-7
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/22/22 13:27*	*06/24/22 00:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**24.1**	**J**	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**24.1**	**J**	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*100*		*70 - 130*	*06/22/22 09:41*	*06/22/22 17:26*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/22/22 09:41*	*06/22/22 17:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.5**		5.02	0.862	mg/Kg			06/26/22 12:20	1

Client Sample ID: BH-8 5

Lab Sample ID: 890-2437-8
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/22/22 13:27	06/24/22 00:52	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/22/22 13:27	06/24/22 00:52	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/22/22 13:27	06/24/22 00:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 00:52	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/22/22 13:27	06/24/22 00:52	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/22/22 13:27*	*06/24/22 00:52*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/22/22 13:27*	*06/24/22 00:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**23.6**	**J**	50.0	15.0	mg/Kg			06/22/22 17:01	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2437-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Client Sample ID: BH-8 5 — Lab Sample ID: 890-2437-8

Date Collected: 06/17/22 00:00 **Matrix: Solid**
Date Received: 06/20/22 16:30
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.6	J	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/22/22 09:41*	*06/22/22 17:47*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/22/22 09:41*	*06/22/22 17:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		4.97	0.853	mg/Kg			06/26/22 12:27	1

Client Sample ID: BH-9 5 — Lab Sample ID: 890-2437-9

Date Collected: 06/17/22 00:00 **Matrix: Solid**
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/22/22 13:27	06/24/22 01:13	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		06/22/22 13:27	06/24/22 01:13	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		06/22/22 13:27	06/24/22 01:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/24/22 01:13	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		06/22/22 13:27	06/24/22 01:13	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/24/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/22/22 13:27*	*06/24/22 01:13*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/22/22 13:27*	*06/24/22 01:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.5	J	49.9	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.5	J	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 18:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 18:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/22/22 09:41*	*06/22/22 18:09*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/22/22 09:41*	*06/22/22 18:09*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-9 5

Lab Sample ID: 890-2437-9
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.3		5.05	0.867	mg/Kg			06/26/22 12:35	1

Client Sample ID: SW-1

Lab Sample ID: 890-2437-10
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/22/22 13:27	06/24/22 01:33	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/22/22 13:27	06/24/22 01:33	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/22/22 13:27	06/24/22 01:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 01:33	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/22/22 13:27	06/24/22 01:33	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/22/22 13:27*	*06/24/22 01:33*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*06/22/22 13:27*	*06/24/22 01:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.1	J	49.9	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.1	J	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 18:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 18:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 09:41	06/22/22 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/22/22 09:41*	*06/22/22 18:30*	*1*
o-Terphenyl	*95*		*70 - 130*	*06/22/22 09:41*	*06/22/22 18:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.70		5.05	0.867	mg/Kg			06/26/22 12:43	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-2

Lab Sample ID: 890-2437-11
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/22/22 13:27	06/24/22 02:55	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		06/22/22 13:27	06/24/22 02:55	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		06/22/22 13:27	06/24/22 02:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/24/22 02:55	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		06/22/22 13:27	06/24/22 02:55	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/24/22 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/22/22 13:27*	*06/24/22 02:55*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/22/22 13:27*	*06/24/22 02:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**22.0**	**J**	49.8	14.9	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**22.0**	**J**	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 18:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 18:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 09:41	06/22/22 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/22/22 09:41*	*06/22/22 18:52*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/22/22 09:41*	*06/22/22 18:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.9**		4.99	0.857	mg/Kg			06/26/22 12:51	1

Client Sample ID: SW-3

Lab Sample ID: 890-2437-12
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		06/22/22 13:27	06/24/22 03:15	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		06/22/22 13:27	06/24/22 03:15	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		06/22/22 13:27	06/24/22 03:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		06/22/22 13:27	06/24/22 03:15	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		06/22/22 13:27	06/24/22 03:15	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		06/22/22 13:27	06/24/22 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/22/22 13:27*	*06/24/22 03:15*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-3

Lab Sample ID: 890-2437-12
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/22/22 13:27*	*06/24/22 03:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**25.5**	**J**	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**25.5**	**J**	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 19:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 19:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*99*		*70 - 130*	*06/22/22 09:41*	*06/22/22 19:13*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/22/22 09:41*	*06/22/22 19:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.79**		4.95	0.850	mg/Kg			06/26/22 13:14	1

Client Sample ID: SW-4

Lab Sample ID: 890-2437-13
Matrix: Solid
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		06/22/22 13:27	06/24/22 03:35	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		06/22/22 13:27	06/24/22 03:35	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		06/22/22 13:27	06/24/22 03:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		06/22/22 13:27	06/24/22 03:35	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		06/22/22 13:27	06/24/22 03:35	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		06/22/22 13:27	06/24/22 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/22/22 13:27*	*06/24/22 03:35*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/22/22 13:27*	*06/24/22 03:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**34.0**	**J**	50.0	15.0	mg/Kg			06/22/22 17:01	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2437-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Client Sample ID: SW-4 Lab Sample ID: 890-2437-13

Date Collected: 06/17/22 00:00 **Matrix: Solid**
Date Received: 06/20/22 16:30
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.0	J B	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 15:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 15:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/22/22 08:36*	*06/22/22 15:19*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/22/22 08:36*	*06/22/22 15:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.56		5.02	0.862	mg/Kg			06/26/22 13:22	1

Client Sample ID: BH-10 2 Lab Sample ID: 890-2437-14

Date Collected: 06/16/22 00:00 **Matrix: Solid**
Date Received: 06/20/22 16:30
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		06/22/22 13:27	06/24/22 03:56	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		06/22/22 13:27	06/24/22 03:56	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		06/22/22 13:27	06/24/22 03:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		06/22/22 13:27	06/24/22 03:56	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		06/22/22 13:27	06/24/22 03:56	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		06/22/22 13:27	06/24/22 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/22/22 13:27*	*06/24/22 03:56*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/22/22 13:27*	*06/24/22 03:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			06/24/22 11:29	1

Method: 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	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 15:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 15:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*06/22/22 08:36*	*06/22/22 15:39*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/22/22 08:36*	*06/22/22 15:39*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-10 2

Lab Sample ID: 890-2437-14
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		4.96	0.851	mg/Kg			06/26/22 13:46	1

Client Sample ID: BH-11 2

Lab Sample ID: 890-2437-15
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/22/22 13:27	06/24/22 04:16	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/22/22 13:27	06/24/22 04:16	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/22/22 13:27	06/24/22 04:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 04:16	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/22/22 13:27	06/24/22 04:16	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/22/22 13:27*	*06/24/22 04:16*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/22/22 13:27*	*06/24/22 04:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**20.6**	**J**	49.8	14.9	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		06/22/22 08:36	06/22/22 17:26	1
Diesel Range Organics (Over C10-C28)	**20.6**	**J B**	49.8	14.9	mg/Kg		06/22/22 08:36	06/22/22 17:26	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 08:36	06/22/22 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/22/22 08:36*	*06/22/22 17:26*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/22/22 08:36*	*06/22/22 17:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.1**		4.99	0.857	mg/Kg			06/26/22 13:54	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-12 2

Lab Sample ID: 890-2437-16
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/22/22 13:27	06/24/22 04:37	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		06/22/22 13:27	06/24/22 04:37	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		06/22/22 13:27	06/24/22 04:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/24/22 04:37	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		06/22/22 13:27	06/24/22 04:37	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		06/22/22 13:27	06/24/22 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/22/22 13:27*	*06/24/22 04:37*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/22/22 13:27*	*06/24/22 04:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 17:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/22/22 08:36*	*06/22/22 17:47*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/22/22 08:36*	*06/22/22 17:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.1**		4.96	0.851	mg/Kg			06/26/22 14:02	1

Client Sample ID: BH-13 2

Lab Sample ID: 890-2437-17
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/22/22 13:27	06/24/22 04:57	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/22/22 13:27	06/24/22 04:57	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/22/22 13:27	06/24/22 04:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 04:57	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/22/22 13:27	06/24/22 04:57	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/22/22 13:27*	*06/24/22 04:57*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-13 2

Lab Sample ID: 890-2437-17
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/22/22 13:27*	*06/24/22 04:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

Method: 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	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:07	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/22/22 08:36*	*06/22/22 18:07*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/22/22 08:36*	*06/22/22 18:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.57**		4.96	0.851	mg/Kg			06/26/22 14:09	1

Client Sample ID: BH-14 2

Lab Sample ID: 890-2437-18
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/22/22 13:27	06/24/22 05:18	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		06/22/22 13:27	06/24/22 05:18	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		06/22/22 13:27	06/24/22 05:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		06/22/22 13:27	06/24/22 05:18	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		06/22/22 13:27	06/24/22 05:18	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		06/22/22 13:27	06/24/22 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/22/22 13:27*	*06/24/22 05:18*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/22/22 13:27*	*06/24/22 05:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			06/24/22 11:29	1

Method: 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	15.0	mg/Kg			06/22/22 17:01	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-14 2

Lab Sample ID: 890-2437-18
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/22/22 08:36*	*06/22/22 18:28*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/22/22 08:36*	*06/22/22 18:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.4**		4.95	0.850	mg/Kg			06/26/22 14:17	1

Client Sample ID: BH-15 5

Lab Sample ID: 890-2437-19
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/22/22 13:27	06/24/22 05:38	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/22/22 13:27	06/24/22 05:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/22/22 13:27	06/24/22 05:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 05:38	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/22/22 13:27	06/24/22 05:38	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/22/22 13:27	06/24/22 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/22/22 13:27*	*06/24/22 05:38*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/22/22 13:27*	*06/24/22 05:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

Method: 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	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/22/22 08:36*	*06/22/22 18:49*	*1*
o-Terphenyl	*84*		*70 - 130*	*06/22/22 08:36*	*06/22/22 18:49*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-15 5

Lab Sample ID: 890-2437-19
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.4		5.01	0.860	mg/Kg			06/27/22 09:31	1

Client Sample ID: BH-16 5

Lab Sample ID: 890-2437-20
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		06/22/22 13:27	06/24/22 05:58	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		06/22/22 13:27	06/24/22 05:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		06/22/22 13:27	06/24/22 05:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		06/22/22 13:27	06/24/22 05:58	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		06/22/22 13:27	06/24/22 05:58	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		06/22/22 13:27	06/24/22 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/22/22 13:27*	*06/24/22 05:58*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/22/22 13:27*	*06/24/22 05:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/22/22 08:36*	*06/22/22 19:10*	*1*
o-Terphenyl	*84*		*70 - 130*	*06/22/22 08:36*	*06/22/22 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		4.97	0.853	mg/Kg			06/27/22 09:39	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-17 5

Lab Sample ID: 890-2437-21
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		06/23/22 11:40	06/26/22 22:15	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		06/23/22 11:40	06/26/22 22:15	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		06/23/22 11:40	06/26/22 22:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		06/23/22 11:40	06/26/22 22:15	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		06/23/22 11:40	06/26/22 22:15	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		06/23/22 11:40	06/26/22 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/23/22 11:40*	*06/26/22 22:15*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/23/22 11:40*	*06/26/22 22:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/22/22 08:36*	*06/22/22 19:31*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/22/22 08:36*	*06/22/22 19:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.8**	**F1**	5.04	0.865	mg/Kg			06/29/22 03:05	1

Client Sample ID: BH-18 5

Lab Sample ID: 890-2437-22
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		06/23/22 11:40	06/26/22 22:35	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		06/23/22 11:40	06/26/22 22:35	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		06/23/22 11:40	06/26/22 22:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		06/23/22 11:40	06/26/22 22:35	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		06/23/22 11:40	06/26/22 22:35	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		06/23/22 11:40	06/26/22 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/23/22 11:40*	*06/26/22 22:35*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2437-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Client Sample ID: BH-18 5

Lab Sample ID: 890-2437-22
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/23/22 11:40*	*06/26/22 22:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			06/24/22 11:29	1

Method: 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	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 08:36	06/22/22 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*112*		*70 - 130*	*06/22/22 08:36*	*06/22/22 19:51*	*1*
o-Terphenyl	*120*		*70 - 130*	*06/22/22 08:36*	*06/22/22 19:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.1**		4.98	0.855	mg/Kg			06/29/22 03:28	1

Client Sample ID: BH-19 5

Lab Sample ID: 890-2437-23
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/23/22 11:40	06/26/22 22:56	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/23/22 11:40	06/26/22 22:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/23/22 11:40	06/26/22 22:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/23/22 11:40	06/26/22 22:56	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/23/22 11:40	06/26/22 22:56	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/23/22 11:40	06/26/22 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/23/22 11:40*	*06/26/22 22:56*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/23/22 11:40*	*06/26/22 22:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/22/22 17:01	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2437-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Client Sample ID: BH-19 5

Lab Sample ID: 890-2437-23
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/22/22 08:36*	*06/22/22 20:12*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/22/22 08:36*	*06/22/22 20:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.6**		5.03	0.863	mg/Kg			06/29/22 03:36	1

Client Sample ID: BH-20 5

Lab Sample ID: 890-2437-24
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/23/22 11:40	06/26/22 23:16	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		06/23/22 11:40	06/26/22 23:16	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		06/23/22 11:40	06/26/22 23:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		06/23/22 11:40	06/26/22 23:16	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		06/23/22 11:40	06/26/22 23:16	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		06/23/22 11:40	06/26/22 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/23/22 11:40*	*06/26/22 23:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/23/22 11:40*	*06/26/22 23:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 20:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 20:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/22/22 08:36*	*06/22/22 20:33*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/22/22 08:36*	*06/22/22 20:33*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-20 5

Lab Sample ID: 890-2437-24
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.6		4.95	0.850	mg/Kg			06/29/22 03:44	1

Client Sample ID: SW-5

Lab Sample ID: 890-2437-25
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/23/22 11:40	06/26/22 23:37	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/23/22 11:40	06/26/22 23:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/23/22 11:40	06/26/22 23:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/23/22 11:40	06/26/22 23:37	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/23/22 11:40	06/26/22 23:37	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/23/22 11:40	06/26/22 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/23/22 11:40*	*06/26/22 23:37*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/22 11:40*	*06/26/22 23:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 23:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 23:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/22/22 14:48*	*06/22/22 23:20*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/22/22 14:48*	*06/22/22 23:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.08		5.05	0.867	mg/Kg			06/29/22 03:52	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-6

Lab Sample ID: 890-2437-26
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		06/23/22 11:40	06/26/22 23:57	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		06/23/22 11:40	06/26/22 23:57	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		06/23/22 11:40	06/26/22 23:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		06/23/22 11:40	06/26/22 23:57	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		06/23/22 11:40	06/26/22 23:57	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		06/23/22 11:40	06/26/22 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/23/22 11:40*	*06/26/22 23:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/23/22 11:40*	*06/26/22 23:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 23:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 23:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/22/22 14:48*	*06/22/22 23:40*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/22/22 14:48*	*06/22/22 23:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**		5.02	0.862	mg/Kg			06/29/22 04:15	1

Client Sample ID: SW-7

Lab Sample ID: 890-2437-27
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		06/23/22 11:40	06/27/22 00:17	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		06/23/22 11:40	06/27/22 00:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		06/23/22 11:40	06/27/22 00:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		06/23/22 11:40	06/27/22 00:17	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		06/23/22 11:40	06/27/22 00:17	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		06/23/22 11:40	06/27/22 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/23/22 11:40*	*06/27/22 00:17*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-7

Lab Sample ID: 890-2437-27
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 7

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/22 11:40*	*06/27/22 00:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			06/24/22 11:29	1

Method: 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	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/22/22 14:48*	*06/23/22 00:00*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/22/22 14:48*	*06/23/22 00:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.23**		4.99	0.857	mg/Kg			06/29/22 04:23	1

Client Sample ID: SW-8

Lab Sample ID: 890-2437-28
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		06/23/22 11:40	06/27/22 00:38	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		06/23/22 11:40	06/27/22 00:38	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		06/23/22 11:40	06/27/22 00:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		06/23/22 11:40	06/27/22 00:38	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		06/23/22 11:40	06/27/22 00:38	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		06/23/22 11:40	06/27/22 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/23/22 11:40*	*06/27/22 00:38*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/22 11:40*	*06/27/22 00:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			06/24/22 11:29	1

Method: 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	14.9	mg/Kg			06/22/22 17:01	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-8

Lab Sample ID: 890-2437-28
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		06/22/22 14:48	06/23/22 00:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 14:48	06/23/22 00:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 14:48	06/23/22 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/22/22 14:48*	*06/23/22 00:20*	*1*
o-Terphenyl	*94*		*70 - 130*	*06/22/22 14:48*	*06/23/22 00:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.6**		5.02	0.862	mg/Kg			06/29/22 04:31	1

Client Sample ID: SW-9

Lab Sample ID: 890-2437-29
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 9

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/23/22 11:40	06/27/22 00:58	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		06/23/22 11:40	06/27/22 00:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/23/22 11:40	06/27/22 00:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/23/22 11:40	06/27/22 00:58	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/23/22 11:40	06/27/22 00:58	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/23/22 11:40	06/27/22 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/23/22 11:40*	*06/27/22 00:58*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/23/22 11:40*	*06/27/22 00:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/24/22 11:29	1

Method: 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	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/22/22 14:48*	*06/23/22 00:39*	*1*
o-Terphenyl	*93*		*70 - 130*	*06/22/22 14:48*	*06/23/22 00:39*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-9

Lab Sample ID: 890-2437-29
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.3**		4.96	0.851	mg/Kg			06/29/22 04:39	1

Client Sample ID: SW-10

Lab Sample ID: 890-2437-30
Matrix: Solid
Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		06/27/22 15:00	06/27/22 16:29	1
Toluene	**0.000907**	**J**	0.00201	0.000459	mg/Kg		06/27/22 15:00	06/27/22 16:29	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		06/27/22 15:00	06/27/22 16:29	1
m-Xylene & p-Xylene	**0.00118**	**J**	0.00402	0.00102	mg/Kg		06/27/22 15:00	06/27/22 16:29	1
o-Xylene	**0.000649**	**J**	0.00201	0.000346	mg/Kg		06/27/22 15:00	06/27/22 16:29	1
Xylenes, Total	**0.00183**	**J**	0.00402	0.00102	mg/Kg		06/27/22 15:00	06/27/22 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/27/22 15:00*	*06/27/22 16:29*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/27/22 15:00*	*06/27/22 16:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00274**	**J**	0.00402	0.00102	mg/Kg			06/24/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/23/22 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/22/22 14:48*	*06/23/22 00:59*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/22/22 14:48*	*06/23/22 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.15**		4.97	0.853	mg/Kg			06/29/22 04:47	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-11

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30
Sample Depth: 11

Lab Sample ID: 890-2437-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/23/22 08:59	06/23/22 16:23	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		06/23/22 08:59	06/23/22 16:23	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		06/23/22 08:59	06/23/22 16:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		06/23/22 08:59	06/23/22 16:23	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		06/23/22 08:59	06/23/22 16:23	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		06/23/22 08:59	06/23/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/23/22 08:59*	*06/23/22 16:23*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/23/22 08:59*	*06/23/22 16:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			06/24/22 11:29	1

Method: 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	14.9	mg/Kg			06/22/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		06/22/22 14:48	06/23/22 01:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 14:48	06/23/22 01:19	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		06/22/22 14:48	06/23/22 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*06/22/22 14:48*	*06/23/22 01:19*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/22/22 14:48*	*06/23/22 01:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.5**	**F1**	5.05	0.867	mg/Kg			06/29/22 04:55	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-2437-1	BH-1 4	110	90										
890-2437-1 MS	BH-1 4	111	98										
890-2437-1 MSD	BH-1 4	112	96										
890-2437-2	BH-2 4	120	93										
890-2437-3	BH-3 4	109	90										
890-2437-4	BH-4 4	119	90										
890-2437-5	BH-5 4	119	91										
890-2437-6	BH-6 4	118	88										
890-2437-7	BH-7 5	115	91										
890-2437-8	BH-8 5	114	89										
890-2437-9	BH-9 5	118	84										
890-2437-10	SW-1	106	83										
890-2437-11	SW-2	115	90										
890-2437-12	SW-3	116	88										
890-2437-13	SW-4	117	89										
890-2437-14	BH-10 2	114	88										
890-2437-15	BH-11 2	117	89										
890-2437-16	BH-12 2	115	88										
890-2437-17	BH-13 2	113	87										
890-2437-18	BH-14 2	119	90										
890-2437-19	BH-15 5	120	87										
890-2437-20	BH-16 5	112	88										
890-2437-21	BH-17 5	105	99										
890-2437-22	BH-18 5	94	96										
890-2437-23	BH-19 5	93	95										
890-2437-24	BH-20 5	96	94										
890-2437-25	SW-5	97	97										
890-2437-26	SW-6	96	94										
890-2437-27	SW-7	102	97										
890-2437-28	SW-8	95	97										
890-2437-29	SW-9	95	96										
890-2437-30	SW-10	96	89										
890-2437-31	SW-11	109	93										
LCS 880-28154/1-A	Lab Control Sample	104	98										
LCS 880-28204/1-A	Lab Control Sample	111	97										
LCS 880-28232/1-A	Lab Control Sample	96	96										
LCS 880-28399/1-A	Lab Control Sample	111	98										
LCSD 880-28154/2-A	Lab Control Sample Dup	110	99										
LCSD 880-28204/2-A	Lab Control Sample Dup	111	97										
LCSD 880-28232/2-A	Lab Control Sample Dup	95	93										
LCSD 880-28399/2-A	Lab Control Sample Dup	111	98										
MB 880-28154/5-A	Method Blank	101	89										
MB 880-28204/5-A	Method Blank	103	88										
MB 880-28232/5-A	Method Blank	97	97										
MB 880-28399/5-A	Method Blank	105	89										

Surrogate Legend

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

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2437-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad 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)								
890-2437-1	BH-1 4	96	101								
890-2437-2	BH-2 4	104	109								
890-2437-3	BH-3 4	114	119								
890-2437-4	BH-4 4	109	111								
890-2437-5	BH-5 4	97	106								
890-2437-6	BH-6 4	101	104								
890-2437-7	BH-7 5	100	106								
890-2437-8	BH-8 5	96	99								
890-2437-9	BH-9 5	97	102								
890-2437-10	SW-1	93	95								
890-2437-11	SW-2	107	114								
890-2437-12	SW-3	99	105								
890-2437-13	SW-4	96	105								
890-2437-14	BH-10 2	82	89								
890-2437-15	BH-11 2	107	119								
890-2437-16	BH-12 2	86	90								
890-2437-17	BH-13 2	97	109								
890-2437-18	BH-14 2	85	90								
890-2437-19	BH-15 5	79	84								
890-2437-20	BH-16 5	79	84								
890-2437-21	BH-17 5	105	115								
890-2437-22	BH-18 5	112	120								
890-2437-23	BH-19 5	96	102								
890-2437-24	BH-20 5	86	90								
890-2437-25	SW-5	99	108								
890-2437-26	SW-6	100	106								
890-2437-27	SW-7	91	100								
890-2437-28	SW-8	91	94								
890-2437-29	SW-9	89	93								
890-2437-30	SW-10	95	101								
890-2437-31	SW-11	87	92								
LCS 880-28095/2-A	Lab Control Sample	96	107								
LCS 880-28102/2-A	Lab Control Sample	104	115								
LCS 880-28163/2-A	Lab Control Sample	92	95								
LCSD 880-28095/3-A	Lab Control Sample Dup	86	90								
LCSD 880-28102/3-A	Lab Control Sample Dup	97	109								
LCSD 880-28163/3-A	Lab Control Sample Dup	103	109								
MB 880-28095/1-A	Method Blank	85	96								
MB 880-28102/1-A	Method Blank	104	121								
MB 880-28163/1-A	Method Blank	102	118								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28154/5-A
Matrix: Solid
Analysis Batch: 28203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		06/22/22 13:27	06/23/22 22:08	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		06/22/22 13:27	06/23/22 22:08	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		06/22/22 13:27	06/23/22 22:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		06/22/22 13:27	06/23/22 22:08	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		06/22/22 13:27	06/23/22 22:08	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		06/22/22 13:27	06/23/22 22:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/22/22 13:27*	*06/23/22 22:08*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/22/22 13:27*	*06/23/22 22:08*	*1*

Lab Sample ID: LCS 880-28154/1-A
Matrix: Solid
Analysis Batch: 28203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28154

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1045		mg/Kg		105	70 - 130		
Toluene			0.100	0.1042		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.1076		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2196		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1109		mg/Kg		111	70 - 130		

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

Lab Sample ID: LCSD 880-28154/2-A
Matrix: Solid
Analysis Batch: 28203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28154

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1012		mg/Kg		101	70 - 130	3	35
Toluene			0.100	0.1026		mg/Kg		103	70 - 130	2	35
Ethylbenzene			0.100	0.1048		mg/Kg		105	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2141		mg/Kg		107	70 - 130	3	35
o-Xylene			0.100	0.1092		mg/Kg		109	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2437-1 MS
Matrix: Solid
Analysis Batch: 28203

Client Sample ID: BH-1 4
Prep Type: Total/NA
Prep Batch: 28154

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08493		mg/Kg		85	70 - 130		
Toluene	<0.00200	U	0.100	0.08179		mg/Kg		82	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2437-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

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

Lab Sample ID: 890-2437-1 MS **Client Sample ID: BH-1 4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28203 **Prep Batch: 28154**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08817		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1778		mg/Kg		89	70 - 130
o-Xylene	<0.00200	U	0.100	0.09028		mg/Kg		90	70 - 130

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

Lab Sample ID: 890-2437-1 MSD **Client Sample ID: BH-1 4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28203 **Prep Batch: 28154**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08666		mg/Kg		87	70 - 130	2	35
Toluene	<0.00200	U	0.0996	0.08348		mg/Kg		84	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0996	0.09115		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1819		mg/Kg		91	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.09289		mg/Kg		93	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-28204/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28203 **Prep Batch: 28204**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		06/23/22 08:59	06/23/22 11:34	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		06/23/22 08:59	06/23/22 11:34	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		06/23/22 08:59	06/23/22 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		06/23/22 08:59	06/23/22 11:34	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		06/23/22 08:59	06/23/22 11:34	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		06/23/22 08:59	06/23/22 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/23/22 08:59*	*06/23/22 11:34*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/23/22 08:59*	*06/23/22 11:34*	*1*

Lab Sample ID: LCS 880-28204/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28203 **Prep Batch: 28204**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09114		mg/Kg		91	70 - 130
Toluene	0.100	0.09051		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09526		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1977		mg/Kg		99	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-28204/1-A
Matrix: Solid
Analysis Batch: 28203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28204

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09916		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-28204/2-A
Matrix: Solid
Analysis Batch: 28203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28204

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09688		mg/Kg		97	70 - 130	6	35
Toluene			0.100	0.09613		mg/Kg		96	70 - 130	6	35
Ethylbenzene			0.100	0.1026		mg/Kg		103	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2134		mg/Kg		107	70 - 130	8	35
o-Xylene			0.100	0.1069		mg/Kg		107	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-28232/5-A
Matrix: Solid
Analysis Batch: 28405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		06/23/22 11:40	06/26/22 16:51	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		06/23/22 11:40	06/26/22 16:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		06/23/22 11:40	06/26/22 16:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		06/23/22 11:40	06/26/22 16:51	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		06/23/22 11:40	06/26/22 16:51	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		06/23/22 11:40	06/26/22 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/23/22 11:40*	*06/26/22 16:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/22 11:40*	*06/26/22 16:51*	*1*

Lab Sample ID: LCS 880-28232/1-A
Matrix: Solid
Analysis Batch: 28405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28232

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1051		mg/Kg		105	70 - 130		
Toluene			0.100	0.1155		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.1217		mg/Kg		122	70 - 130		
m-Xylene & p-Xylene			0.200	0.2476		mg/Kg		124	70 - 130		
o-Xylene			0.100	0.1192		mg/Kg		119	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-28232/1-A
Matrix: Solid
Analysis Batch: 28405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28232

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

Lab Sample ID: LCSD 880-28232/2-A
Matrix: Solid
Analysis Batch: 28405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28232

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1062		mg/Kg		106	70 - 130	1	35
Toluene			0.100	0.1106		mg/Kg		111	70 - 130	4	35
Ethylbenzene			0.100	0.1139		mg/Kg		114	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2334		mg/Kg		117	70 - 130	6	35
o-Xylene			0.100	0.1139		mg/Kg		114	70 - 130	5	35

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

Lab Sample ID: MB 880-28399/5-A
Matrix: Solid
Analysis Batch: 28415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		06/25/22 18:16	06/27/22 10:39	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		06/25/22 18:16	06/27/22 10:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		06/25/22 18:16	06/27/22 10:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		06/25/22 18:16	06/27/22 10:39	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		06/25/22 18:16	06/27/22 10:39	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		06/25/22 18:16	06/27/22 10:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/25/22 18:16	06/27/22 10:39	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/25/22 18:16	06/27/22 10:39	1

Lab Sample ID: LCS 880-28399/1-A
Matrix: Solid
Analysis Batch: 28415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28399

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.09940		mg/Kg		99	70 - 130
Toluene			0.100	0.09941		mg/Kg		99	70 - 130
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130
m-Xylene & p-Xylene			0.200	0.2139		mg/Kg		107	70 - 130
o-Xylene			0.100	0.1062		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-28399/1-A
Matrix: Solid
Analysis Batch: 28415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28399

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

Lab Sample ID: LCSD 880-28399/2-A
Matrix: Solid
Analysis Batch: 28415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28399

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene			0.100	0.1036		mg/Kg		104	70 - 130	4	35
Ethylbenzene			0.100	0.1083		mg/Kg		108	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2224		mg/Kg		111	70 - 130	4	35
o-Xylene			0.100	0.1101		mg/Kg		110	70 - 130	4	35

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

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

Lab Sample ID: MB 880-28095/1-A
Matrix: Solid
Analysis Batch: 28090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.98	J	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 10:43	1
Diesel Range Organics (Over C10-C28)	15.77	J	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 10:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 08:36	06/22/22 10:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	06/22/22 08:36	06/22/22 10:43	1
o-Terphenyl	96		70 - 130	06/22/22 08:36	06/22/22 10:43	1

Lab Sample ID: LCS 880-28095/2-A
Matrix: Solid
Analysis Batch: 28090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28095

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	967.3		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)			1000	997.0		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	107		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

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

Lab Sample ID: LCSD 880-28095/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28090 — **Prep Batch: 28095**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	850.2		mg/Kg		85	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	875.2		mg/Kg		88	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: MB 880-28102/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28084 — **Prep Batch: 28102**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 10:54	1
Diesel Range Organics (Over C10-C28)	16.22	J	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 10:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 09:41	06/22/22 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/22/22 09:41*	*06/22/22 10:54*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/22/22 09:41*	*06/22/22 10:54*	*1*

Lab Sample ID: LCS 880-28102/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28084 — **Prep Batch: 28102**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	855.5		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: LCSD 880-28102/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28084 — **Prep Batch: 28102**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	817.2		mg/Kg		82	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	953.5		mg/Kg		95	70 - 130	8	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

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

Lab Sample ID: LCSD 880-28102/3-A
Matrix: Solid
Analysis Batch: 28084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28102

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: MB 880-28163/1-A
Matrix: Solid
Analysis Batch: 28090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 21:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 21:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/22/22 14:48	06/22/22 21:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/22/22 14:48	06/22/22 21:15	1
o-Terphenyl	118		70 - 130	06/22/22 14:48	06/22/22 21:15	1

Lab Sample ID: LCS 880-28163/2-A
Matrix: Solid
Analysis Batch: 28090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	969.2		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	838.0		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-28163/3-A
Matrix: Solid
Analysis Batch: 28090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28163

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1169		mg/Kg		117	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28142/1-A
Matrix: Solid
Analysis Batch: 28230

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	0.858	mg/Kg			06/26/22 10:37	1

Lab Sample ID: LCS 880-28142/2-A
Matrix: Solid
Analysis Batch: 28230

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.1		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-28142/3-A
Matrix: Solid
Analysis Batch: 28230

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	271.3		mg/Kg		109	90 - 110	2	20

Lab Sample ID: 890-2437-1 MS
Matrix: Solid
Analysis Batch: 28230

Client Sample ID: BH-1 4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13.4	F1	249	290.6	F1	mg/Kg		112	90 - 110

Lab Sample ID: 890-2437-1 MSD
Matrix: Solid
Analysis Batch: 28230

Client Sample ID: BH-1 4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13.4	F1	249	284.5		mg/Kg		109	90 - 110	2	20

Lab Sample ID: 890-2437-11 MS
Matrix: Solid
Analysis Batch: 28230

Client Sample ID: SW-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	34.9		250	276.6		mg/Kg		97	90 - 110

Lab Sample ID: 890-2437-11 MSD
Matrix: Solid
Analysis Batch: 28230

Client Sample ID: SW-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	34.9		250	270.2		mg/Kg		94	90 - 110	2	20

Lab Sample ID: MB 880-28155/1-A
Matrix: Solid
Analysis Batch: 28231

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	0.858	mg/Kg			06/29/22 02:41	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-28155/2-A
Matrix: Solid
Analysis Batch: 28231

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	267.0		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-28155/3-A
Matrix: Solid
Analysis Batch: 28231

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	273.6		mg/Kg		109	90 - 110	2	20

Lab Sample ID: 890-2437-21 MS
Matrix: Solid
Analysis Batch: 28231

Client Sample ID: BH-17 5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12.8	F1	252	311.0	F1	mg/Kg		118	90 - 110		

Lab Sample ID: 890-2437-21 MSD
Matrix: Solid
Analysis Batch: 28231

Client Sample ID: BH-17 5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.8	F1	252	313.5	F1	mg/Kg		119	90 - 110	1	20

Lab Sample ID: 890-2437-31 MS
Matrix: Solid
Analysis Batch: 28231

Client Sample ID: SW-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.5	F1	253	305.9	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 890-2437-31 MSD
Matrix: Solid
Analysis Batch: 28231

Client Sample ID: SW-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.5	F1	253	304.2	F1	mg/Kg		112	90 - 110	1	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

GC VOA

Prep Batch: 28154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-1	BH-1 4	Total/NA	Solid	5035	
890-2437-2	BH-2 4	Total/NA	Solid	5035	
890-2437-3	BH-3 4	Total/NA	Solid	5035	
890-2437-4	BH-4 4	Total/NA	Solid	5035	
890-2437-5	BH-5 4	Total/NA	Solid	5035	
890-2437-6	BH-6 4	Total/NA	Solid	5035	
890-2437-7	BH-7 5	Total/NA	Solid	5035	
890-2437-8	BH-8 5	Total/NA	Solid	5035	
890-2437-9	BH-9 5	Total/NA	Solid	5035	
890-2437-10	SW-1	Total/NA	Solid	5035	
890-2437-11	SW-2	Total/NA	Solid	5035	
890-2437-12	SW-3	Total/NA	Solid	5035	
890-2437-13	SW-4	Total/NA	Solid	5035	
890-2437-14	BH-10 2	Total/NA	Solid	5035	
890-2437-15	BH-11 2	Total/NA	Solid	5035	
890-2437-16	BH-12 2	Total/NA	Solid	5035	
890-2437-17	BH-13 2	Total/NA	Solid	5035	
890-2437-18	BH-14 2	Total/NA	Solid	5035	
890-2437-19	BH-15 5	Total/NA	Solid	5035	
890-2437-20	BH-16 5	Total/NA	Solid	5035	
MB 880-28154/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28154/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28154/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2437-1 MS	BH-1 4	Total/NA	Solid	5035	
890-2437-1 MSD	BH-1 4	Total/NA	Solid	5035	

Analysis Batch: 28203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-1	BH-1 4	Total/NA	Solid	8021B	28154
890-2437-2	BH-2 4	Total/NA	Solid	8021B	28154
890-2437-3	BH-3 4	Total/NA	Solid	8021B	28154
890-2437-4	BH-4 4	Total/NA	Solid	8021B	28154
890-2437-5	BH-5 4	Total/NA	Solid	8021B	28154
890-2437-6	BH-6 4	Total/NA	Solid	8021B	28154
890-2437-7	BH-7 5	Total/NA	Solid	8021B	28154
890-2437-8	BH-8 5	Total/NA	Solid	8021B	28154
890-2437-9	BH-9 5	Total/NA	Solid	8021B	28154
890-2437-10	SW-1	Total/NA	Solid	8021B	28154
890-2437-11	SW-2	Total/NA	Solid	8021B	28154
890-2437-12	SW-3	Total/NA	Solid	8021B	28154
890-2437-13	SW-4	Total/NA	Solid	8021B	28154
890-2437-14	BH-10 2	Total/NA	Solid	8021B	28154
890-2437-15	BH-11 2	Total/NA	Solid	8021B	28154
890-2437-16	BH-12 2	Total/NA	Solid	8021B	28154
890-2437-17	BH-13 2	Total/NA	Solid	8021B	28154
890-2437-18	BH-14 2	Total/NA	Solid	8021B	28154
890-2437-19	BH-15 5	Total/NA	Solid	8021B	28154
890-2437-20	BH-16 5	Total/NA	Solid	8021B	28154
890-2437-31	SW-11	Total/NA	Solid	8021B	28204
MB 880-28154/5-A	Method Blank	Total/NA	Solid	8021B	28154
MB 880-28204/5-A	Method Blank	Total/NA	Solid	8021B	28204

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

GC VOA (Continued)

Analysis Batch: 28203 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-28154/1-A	Lab Control Sample	Total/NA	Solid	8021B	28154
LCS 880-28204/1-A	Lab Control Sample	Total/NA	Solid	8021B	28204
LCSD 880-28154/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28154
LCSD 880-28204/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28204
890-2437-1 MS	BH-1 4	Total/NA	Solid	8021B	28154
890-2437-1 MSD	BH-1 4	Total/NA	Solid	8021B	28154

Prep Batch: 28204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-31	SW-11	Total/NA	Solid	5035	
MB 880-28204/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28204/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28204/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 28232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-21	BH-17 5	Total/NA	Solid	5035	
890-2437-22	BH-18 5	Total/NA	Solid	5035	
890-2437-23	BH-19 5	Total/NA	Solid	5035	
890-2437-24	BH-20 5	Total/NA	Solid	5035	
890-2437-25	SW-5	Total/NA	Solid	5035	
890-2437-26	SW-6	Total/NA	Solid	5035	
890-2437-27	SW-7	Total/NA	Solid	5035	
890-2437-28	SW-8	Total/NA	Solid	5035	
890-2437-29	SW-9	Total/NA	Solid	5035	
MB 880-28232/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28232/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28232/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 28344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-1	BH-1 4	Total/NA	Solid	Total BTEX	
890-2437-2	BH-2 4	Total/NA	Solid	Total BTEX	
890-2437-3	BH-3 4	Total/NA	Solid	Total BTEX	
890-2437-4	BH-4 4	Total/NA	Solid	Total BTEX	
890-2437-5	BH-5 4	Total/NA	Solid	Total BTEX	
890-2437-6	BH-6 4	Total/NA	Solid	Total BTEX	
890-2437-7	BH-7 5	Total/NA	Solid	Total BTEX	
890-2437-8	BH-8 5	Total/NA	Solid	Total BTEX	
890-2437-9	BH-9 5	Total/NA	Solid	Total BTEX	
890-2437-10	SW-1	Total/NA	Solid	Total BTEX	
890-2437-11	SW-2	Total/NA	Solid	Total BTEX	
890-2437-12	SW-3	Total/NA	Solid	Total BTEX	
890-2437-13	SW-4	Total/NA	Solid	Total BTEX	
890-2437-14	BH-10 2	Total/NA	Solid	Total BTEX	
890-2437-15	BH-11 2	Total/NA	Solid	Total BTEX	
890-2437-16	BH-12 2	Total/NA	Solid	Total BTEX	
890-2437-17	BH-13 2	Total/NA	Solid	Total BTEX	
890-2437-18	BH-14 2	Total/NA	Solid	Total BTEX	
890-2437-19	BH-15 5	Total/NA	Solid	Total BTEX	
890-2437-20	BH-16 5	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

GC VOA (Continued)

Analysis Batch: 28344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-21	BH-17 5	Total/NA	Solid	Total BTEX	
890-2437-22	BH-18 5	Total/NA	Solid	Total BTEX	
890-2437-23	BH-19 5	Total/NA	Solid	Total BTEX	
890-2437-24	BH-20 5	Total/NA	Solid	Total BTEX	
890-2437-25	SW-5	Total/NA	Solid	Total BTEX	
890-2437-26	SW-6	Total/NA	Solid	Total BTEX	
890-2437-27	SW-7	Total/NA	Solid	Total BTEX	
890-2437-28	SW-8	Total/NA	Solid	Total BTEX	
890-2437-29	SW-9	Total/NA	Solid	Total BTEX	
890-2437-30	SW-10	Total/NA	Solid	Total BTEX	
890-2437-31	SW-11	Total/NA	Solid	Total BTEX	

Prep Batch: 28399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-30	SW-10	Total/NA	Solid	5035	
MB 880-28399/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28399/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28399/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 28405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-21	BH-17 5	Total/NA	Solid	8021B	28232
890-2437-22	BH-18 5	Total/NA	Solid	8021B	28232
890-2437-23	BH-19 5	Total/NA	Solid	8021B	28232
890-2437-24	BH-20 5	Total/NA	Solid	8021B	28232
890-2437-25	SW-5	Total/NA	Solid	8021B	28232
890-2437-26	SW-6	Total/NA	Solid	8021B	28232
890-2437-27	SW-7	Total/NA	Solid	8021B	28232
890-2437-28	SW-8	Total/NA	Solid	8021B	28232
890-2437-29	SW-9	Total/NA	Solid	8021B	28232
MB 880-28232/5-A	Method Blank	Total/NA	Solid	8021B	28232
LCS 880-28232/1-A	Lab Control Sample	Total/NA	Solid	8021B	28232
LCSD 880-28232/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28232

Analysis Batch: 28415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-30	SW-10	Total/NA	Solid	8021B	28399
MB 880-28399/5-A	Method Blank	Total/NA	Solid	8021B	28399
LCS 880-28399/1-A	Lab Control Sample	Total/NA	Solid	8021B	28399
LCSD 880-28399/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28399

GC Semi VOA

Analysis Batch: 28084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-1	BH-1 4	Total/NA	Solid	8015B NM	28102
890-2437-2	BH-2 4	Total/NA	Solid	8015B NM	28102
890-2437-3	BH-3 4	Total/NA	Solid	8015B NM	28102
890-2437-4	BH-4 4	Total/NA	Solid	8015B NM	28102
890-2437-5	BH-5 4	Total/NA	Solid	8015B NM	28102
890-2437-6	BH-6 4	Total/NA	Solid	8015B NM	28102

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 28084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-7	BH-7 5	Total/NA	Solid	8015B NM	28102
890-2437-8	BH-8 5	Total/NA	Solid	8015B NM	28102
890-2437-9	BH-9 5	Total/NA	Solid	8015B NM	28102
890-2437-10	SW-1	Total/NA	Solid	8015B NM	28102
890-2437-11	SW-2	Total/NA	Solid	8015B NM	28102
890-2437-12	SW-3	Total/NA	Solid	8015B NM	28102
MB 880-28102/1-A	Method Blank	Total/NA	Solid	8015B NM	28102
LCS 880-28102/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28102
LCSD 880-28102/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28102

Analysis Batch: 28090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-13	SW-4	Total/NA	Solid	8015B NM	28095
890-2437-14	BH-10 2	Total/NA	Solid	8015B NM	28095
890-2437-15	BH-11 2	Total/NA	Solid	8015B NM	28095
890-2437-16	BH-12 2	Total/NA	Solid	8015B NM	28095
890-2437-17	BH-13 2	Total/NA	Solid	8015B NM	28095
890-2437-18	BH-14 2	Total/NA	Solid	8015B NM	28095
890-2437-19	BH-15 5	Total/NA	Solid	8015B NM	28095
890-2437-20	BH-16 5	Total/NA	Solid	8015B NM	28095
890-2437-21	BH-17 5	Total/NA	Solid	8015B NM	28095
890-2437-22	BH-18 5	Total/NA	Solid	8015B NM	28095
890-2437-23	BH-19 5	Total/NA	Solid	8015B NM	28095
890-2437-24	BH-20 5	Total/NA	Solid	8015B NM	28095
890-2437-25	SW-5	Total/NA	Solid	8015B NM	28163
890-2437-26	SW-6	Total/NA	Solid	8015B NM	28163
890-2437-27	SW-7	Total/NA	Solid	8015B NM	28163
890-2437-28	SW-8	Total/NA	Solid	8015B NM	28163
890-2437-29	SW-9	Total/NA	Solid	8015B NM	28163
890-2437-30	SW-10	Total/NA	Solid	8015B NM	28163
890-2437-31	SW-11	Total/NA	Solid	8015B NM	28163
MB 880-28095/1-A	Method Blank	Total/NA	Solid	8015B NM	28095
MB 880-28163/1-A	Method Blank	Total/NA	Solid	8015B NM	28163
LCS 880-28095/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28095
LCS 880-28163/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28163
LCSD 880-28095/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28095
LCSD 880-28163/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28163

Prep Batch: 28095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-13	SW-4	Total/NA	Solid	8015NM Prep	
890-2437-14	BH-10 2	Total/NA	Solid	8015NM Prep	
890-2437-15	BH-11 2	Total/NA	Solid	8015NM Prep	
890-2437-16	BH-12 2	Total/NA	Solid	8015NM Prep	
890-2437-17	BH-13 2	Total/NA	Solid	8015NM Prep	
890-2437-18	BH-14 2	Total/NA	Solid	8015NM Prep	
890-2437-19	BH-15 5	Total/NA	Solid	8015NM Prep	
890-2437-20	BH-16 5	Total/NA	Solid	8015NM Prep	
890-2437-21	BH-17 5	Total/NA	Solid	8015NM Prep	
890-2437-22	BH-18 5	Total/NA	Solid	8015NM Prep	
890-2437-23	BH-19 5	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Prep Batch: 28095 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-24	BH-20 5	Total/NA	Solid	8015NM Prep	
MB 880-28095/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28095/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28095/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 28102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-1	BH-1 4	Total/NA	Solid	8015NM Prep	
890-2437-2	BH-2 4	Total/NA	Solid	8015NM Prep	
890-2437-3	BH-3 4	Total/NA	Solid	8015NM Prep	
890-2437-4	BH-4 4	Total/NA	Solid	8015NM Prep	
890-2437-5	BH-5 4	Total/NA	Solid	8015NM Prep	
890-2437-6	BH-6 4	Total/NA	Solid	8015NM Prep	
890-2437-7	BH-7 5	Total/NA	Solid	8015NM Prep	
890-2437-8	BH-8 5	Total/NA	Solid	8015NM Prep	
890-2437-9	BH-9 5	Total/NA	Solid	8015NM Prep	
890-2437-10	SW-1	Total/NA	Solid	8015NM Prep	
890-2437-11	SW-2	Total/NA	Solid	8015NM Prep	
890-2437-12	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-28102/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28102/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28102/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 28163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-25	SW-5	Total/NA	Solid	8015NM Prep	
890-2437-26	SW-6	Total/NA	Solid	8015NM Prep	
890-2437-27	SW-7	Total/NA	Solid	8015NM Prep	
890-2437-28	SW-8	Total/NA	Solid	8015NM Prep	
890-2437-29	SW-9	Total/NA	Solid	8015NM Prep	
890-2437-30	SW-10	Total/NA	Solid	8015NM Prep	
890-2437-31	SW-11	Total/NA	Solid	8015NM Prep	
MB 880-28163/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28163/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28163/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-1	BH-1 4	Total/NA	Solid	8015 NM	
890-2437-2	BH-2 4	Total/NA	Solid	8015 NM	
890-2437-3	BH-3 4	Total/NA	Solid	8015 NM	
890-2437-4	BH-4 4	Total/NA	Solid	8015 NM	
890-2437-5	BH-5 4	Total/NA	Solid	8015 NM	
890-2437-6	BH-6 4	Total/NA	Solid	8015 NM	
890-2437-7	BH-7 5	Total/NA	Solid	8015 NM	
890-2437-8	BH-8 5	Total/NA	Solid	8015 NM	
890-2437-9	BH-9 5	Total/NA	Solid	8015 NM	
890-2437-10	SW-1	Total/NA	Solid	8015 NM	
890-2437-11	SW-2	Total/NA	Solid	8015 NM	
890-2437-12	SW-3	Total/NA	Solid	8015 NM	
890-2437-13	SW-4	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 28178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-14	BH-10 2	Total/NA	Solid	8015 NM	
890-2437-15	BH-11 2	Total/NA	Solid	8015 NM	
890-2437-16	BH-12 2	Total/NA	Solid	8015 NM	
890-2437-17	BH-13 2	Total/NA	Solid	8015 NM	
890-2437-18	BH-14 2	Total/NA	Solid	8015 NM	
890-2437-19	BH-15 5	Total/NA	Solid	8015 NM	
890-2437-20	BH-16 5	Total/NA	Solid	8015 NM	
890-2437-21	BH-17 5	Total/NA	Solid	8015 NM	
890-2437-22	BH-18 5	Total/NA	Solid	8015 NM	
890-2437-23	BH-19 5	Total/NA	Solid	8015 NM	
890-2437-24	BH-20 5	Total/NA	Solid	8015 NM	
890-2437-25	SW-5	Total/NA	Solid	8015 NM	
890-2437-26	SW-6	Total/NA	Solid	8015 NM	
890-2437-27	SW-7	Total/NA	Solid	8015 NM	
890-2437-28	SW-8	Total/NA	Solid	8015 NM	
890-2437-29	SW-9	Total/NA	Solid	8015 NM	
890-2437-30	SW-10	Total/NA	Solid	8015 NM	
890-2437-31	SW-11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 28142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-1	BH-1 4	Soluble	Solid	DI Leach	
890-2437-2	BH-2 4	Soluble	Solid	DI Leach	
890-2437-3	BH-3 4	Soluble	Solid	DI Leach	
890-2437-4	BH-4 4	Soluble	Solid	DI Leach	
890-2437-5	BH-5 4	Soluble	Solid	DI Leach	
890-2437-6	BH-6 4	Soluble	Solid	DI Leach	
890-2437-7	BH-7 5	Soluble	Solid	DI Leach	
890-2437-8	BH-8 5	Soluble	Solid	DI Leach	
890-2437-9	BH-9 5	Soluble	Solid	DI Leach	
890-2437-10	SW-1	Soluble	Solid	DI Leach	
890-2437-11	SW-2	Soluble	Solid	DI Leach	
890-2437-12	SW-3	Soluble	Solid	DI Leach	
890-2437-13	SW-4	Soluble	Solid	DI Leach	
890-2437-14	BH-10 2	Soluble	Solid	DI Leach	
890-2437-15	BH-11 2	Soluble	Solid	DI Leach	
890-2437-16	BH-12 2	Soluble	Solid	DI Leach	
890-2437-17	BH-13 2	Soluble	Solid	DI Leach	
890-2437-18	BH-14 2	Soluble	Solid	DI Leach	
890-2437-19	BH-15 5	Soluble	Solid	DI Leach	
890-2437-20	BH-16 5	Soluble	Solid	DI Leach	
MB 880-28142/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28142/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28142/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2437-1 MS	BH-1 4	Soluble	Solid	DI Leach	
890-2437-1 MSD	BH-1 4	Soluble	Solid	DI Leach	
890-2437-11 MS	SW-2	Soluble	Solid	DI Leach	
890-2437-11 MSD	SW-2	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

HPLC/IC

Leach Batch: 28155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-21	BH-17 5	Soluble	Solid	DI Leach	
890-2437-22	BH-18 5	Soluble	Solid	DI Leach	
890-2437-23	BH-19 5	Soluble	Solid	DI Leach	
890-2437-24	BH-20 5	Soluble	Solid	DI Leach	
890-2437-25	SW-5	Soluble	Solid	DI Leach	
890-2437-26	SW-6	Soluble	Solid	DI Leach	
890-2437-27	SW-7	Soluble	Solid	DI Leach	
890-2437-28	SW-8	Soluble	Solid	DI Leach	
890-2437-29	SW-9	Soluble	Solid	DI Leach	
890-2437-30	SW-10	Soluble	Solid	DI Leach	
890-2437-31	SW-11	Soluble	Solid	DI Leach	
MB 880-28155/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28155/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28155/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2437-21 MS	BH-17 5	Soluble	Solid	DI Leach	
890-2437-21 MSD	BH-17 5	Soluble	Solid	DI Leach	
890-2437-31 MS	SW-11	Soluble	Solid	DI Leach	
890-2437-31 MSD	SW-11	Soluble	Solid	DI Leach	

Analysis Batch: 28230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-1	BH-1 4	Soluble	Solid	300.0	28142
890-2437-2	BH-2 4	Soluble	Solid	300.0	28142
890-2437-3	BH-3 4	Soluble	Solid	300.0	28142
890-2437-4	BH-4 4	Soluble	Solid	300.0	28142
890-2437-5	BH-5 4	Soluble	Solid	300.0	28142
890-2437-6	BH-6 4	Soluble	Solid	300.0	28142
890-2437-7	BH-7 5	Soluble	Solid	300.0	28142
890-2437-8	BH-8 5	Soluble	Solid	300.0	28142
890-2437-9	BH-9 5	Soluble	Solid	300.0	28142
890-2437-10	SW-1	Soluble	Solid	300.0	28142
890-2437-11	SW-2	Soluble	Solid	300.0	28142
890-2437-12	SW-3	Soluble	Solid	300.0	28142
890-2437-13	SW-4	Soluble	Solid	300.0	28142
890-2437-14	BH-10 2	Soluble	Solid	300.0	28142
890-2437-15	BH-11 2	Soluble	Solid	300.0	28142
890-2437-16	BH-12 2	Soluble	Solid	300.0	28142
890-2437-17	BH-13 2	Soluble	Solid	300.0	28142
890-2437-18	BH-14 2	Soluble	Solid	300.0	28142
890-2437-19	BH-15 5	Soluble	Solid	300.0	28142
890-2437-20	BH-16 5	Soluble	Solid	300.0	28142
MB 880-28142/1-A	Method Blank	Soluble	Solid	300.0	28142
LCS 880-28142/2-A	Lab Control Sample	Soluble	Solid	300.0	28142
LCSD 880-28142/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28142
890-2437-1 MS	BH-1 4	Soluble	Solid	300.0	28142
890-2437-1 MSD	BH-1 4	Soluble	Solid	300.0	28142
890-2437-11 MS	SW-2	Soluble	Solid	300.0	28142
890-2437-11 MSD	SW-2	Soluble	Solid	300.0	28142

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

HPLC/IC

Analysis Batch: 28231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2437-21	BH-17 5	Soluble	Solid	300.0	28155
890-2437-22	BH-18 5	Soluble	Solid	300.0	28155
890-2437-23	BH-19 5	Soluble	Solid	300.0	28155
890-2437-24	BH-20 5	Soluble	Solid	300.0	28155
890-2437-25	SW-5	Soluble	Solid	300.0	28155
890-2437-26	SW-6	Soluble	Solid	300.0	28155
890-2437-27	SW-7	Soluble	Solid	300.0	28155
890-2437-28	SW-8	Soluble	Solid	300.0	28155
890-2437-29	SW-9	Soluble	Solid	300.0	28155
890-2437-30	SW-10	Soluble	Solid	300.0	28155
890-2437-31	SW-11	Soluble	Solid	300.0	28155
MB 880-28155/1-A	Method Blank	Soluble	Solid	300.0	28155
LCS 880-28155/2-A	Lab Control Sample	Soluble	Solid	300.0	28155
LCSD 880-28155/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28155
890-2437-21 MS	BH-17 5	Soluble	Solid	300.0	28155
890-2437-21 MSD	BH-17 5	Soluble	Solid	300.0	28155
890-2437-31 MS	SW-11	Soluble	Solid	300.0	28155
890-2437-31 MSD	SW-11	Soluble	Solid	300.0	28155

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-1 4

Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/23/22 22:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 11:01	SMC	XEN MID

Client Sample ID: BH-2 4

Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/23/22 22:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 15:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 11:25	SMC	XEN MID

Client Sample ID: BH-3 4

Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/23/22 23:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 15:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 11:32	SMC	XEN MID

Client Sample ID: BH-4 4

Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/23/22 23:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-4 4
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-4
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			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 11:40	SMC	XEN MID

Client Sample ID: BH-5 4
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/23/22 23:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 16:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 11:48	SMC	XEN MID

Client Sample ID: BH-6 4
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-6
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			5.03 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 00:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 17:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 12:12	SMC	XEN MID

Client Sample ID: BH-7 5
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 00:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 17:26	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-7 5
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 12:20	SMC	XEN MID

Client Sample ID: BH-8 5
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 00:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 12:27	SMC	XEN MID

Client Sample ID: BH-9 5
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 01:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 12:35	SMC	XEN MID

Client Sample ID: SW-1
Date Collected: 06/17/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-10
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	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 01:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 12:43	SMC	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-2

Lab Sample ID: 890-2437-11

Date Collected: 06/17/22 00:00
Matrix: Solid
Date Received: 06/20/22 16:30

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	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 02:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 12:51	SMC	XEN MID

Client Sample ID: SW-3

Lab Sample ID: 890-2437-12

Date Collected: 06/17/22 00:00
Matrix: Solid
Date Received: 06/20/22 16:30

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	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 03:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28102	06/22/22 09:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28084	06/22/22 19:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 13:14	SMC	XEN MID

Client Sample ID: SW-4

Lab Sample ID: 890-2437-13

Date Collected: 06/17/22 00:00
Matrix: Solid
Date Received: 06/20/22 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 03:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 15:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 13:22	SMC	XEN MID

Client Sample ID: BH-10 2

Lab Sample ID: 890-2437-14

Date Collected: 06/16/22 00:00
Matrix: Solid
Date Received: 06/20/22 16:30

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	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 03:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-10 2

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 15:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 13:46	SMC	XEN MID

Client Sample ID: BH-11 2

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-15

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	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 04:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 17:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 13:54	SMC	XEN MID

Client Sample ID: BH-12 2

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-16

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	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 04:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 14:02	SMC	XEN MID

Client Sample ID: BH-13 2

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-17

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			5.01 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 04:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 18:07	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-13 2

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 14:09	SMC	XEN MID

Client Sample ID: BH-14 2

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-18

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			5.02 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 05:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/26/22 14:17	SMC	XEN MID

Client Sample ID: BH-15 5

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-19

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			5.01 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 05:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/27/22 09:31	SMC	XEN MID

Client Sample ID: BH-16 5

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-20

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			4.99 g	5 mL	28154	06/22/22 13:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/24/22 05:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28142	06/22/22 12:17	SMC	XEN MID
Soluble	Analysis	300.0		1			28230	06/27/22 09:39	SMC	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-17 5

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-21

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			4.97 g	5 mL	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/26/22 22:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 03:05	SMC	XEN MID

Client Sample ID: BH-18 5

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/26/22 22:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	28231	06/29/22 03:28	SMC	XEN MID

Client Sample ID: BH-19 5

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-23

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	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/26/22 22:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 03:36	SMC	XEN MID

Client Sample ID: BH-20 5

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-24

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	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/26/22 23:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: BH-20 5

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-24

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			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28095	06/22/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 20:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 03:44	SMC	XEN MID

Client Sample ID: SW-5

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-25

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	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/26/22 23:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28163	06/22/22 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 23:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 03:52	SMC	XEN MID

Client Sample ID: SW-6

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-26

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	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/26/22 23:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28163	06/22/22 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/22/22 23:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 04:15	SMC	XEN MID

Client Sample ID: SW-7

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-27

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	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/27/22 00:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28163	06/22/22 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/23/22 00:00	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-7

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 04:23	SMC	XEN MID

Client Sample ID: SW-8

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/27/22 00:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28163	06/22/22 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/23/22 00:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 04:31	SMC	XEN MID

Client Sample ID: SW-9

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-29
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	28232	06/23/22 11:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28405	06/27/22 00:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28163	06/22/22 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/23/22 00:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 04:39	SMC	XEN MID

Client Sample ID: SW-10

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-30
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	28399	06/27/22 15:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28415	06/27/22 16:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28163	06/22/22 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/23/22 00:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 04:47	SMC	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Client Sample ID: SW-11

Date Collected: 06/16/22 00:00
Date Received: 06/20/22 16:30

Lab Sample ID: 890-2437-31

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	28204	06/23/22 08:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28203	06/23/22 16:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28344	06/24/22 11:29	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28178	06/22/22 17:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28163	06/22/22 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28090	06/23/22 01:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28155	06/22/22 13:46	SMC	XEN MID
Soluble	Analysis	300.0		1			28231	06/29/22 04:55	SMC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad 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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2437-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2437-1	BH-1 4	Solid	06/17/22 00:00	06/20/22 16:30	4
890-2437-2	BH-2 4	Solid	06/17/22 00:00	06/20/22 16:30	4
890-2437-3	BH-3 4	Solid	06/17/22 00:00	06/20/22 16:30	4
890-2437-4	BH-4 4	Solid	06/17/22 00:00	06/20/22 16:30	4
890-2437-5	BH-5 4	Solid	06/17/22 00:00	06/20/22 16:30	4
890-2437-6	BH-6 4	Solid	06/17/22 00:00	06/20/22 16:30	4
890-2437-7	BH-7 5	Solid	06/17/22 00:00	06/20/22 16:30	5
890-2437-8	BH-8 5	Solid	06/17/22 00:00	06/20/22 16:30	5
890-2437-9	BH-9 5	Solid	06/17/22 00:00	06/20/22 16:30	5
890-2437-10	SW-1	Solid	06/17/22 00:00	06/20/22 16:30	1
890-2437-11	SW-2	Solid	06/17/22 00:00	06/20/22 16:30	2
890-2437-12	SW-3	Solid	06/17/22 00:00	06/20/22 16:30	3
890-2437-13	SW-4	Solid	06/17/22 00:00	06/20/22 16:30	4
890-2437-14	BH-10 2	Solid	06/16/22 00:00	06/20/22 16:30	2
890-2437-15	BH-11 2	Solid	06/16/22 00:00	06/20/22 16:30	2
890-2437-16	BH-12 2	Solid	06/16/22 00:00	06/20/22 16:30	2
890-2437-17	BH-13 2	Solid	06/16/22 00:00	06/20/22 16:30	2
890-2437-18	BH-14 2	Solid	06/16/22 00:00	06/20/22 16:30	2
890-2437-19	BH-15 5	Solid	06/16/22 00:00	06/20/22 16:30	5
890-2437-20	BH-16 5	Solid	06/16/22 00:00	06/20/22 16:30	5
890-2437-21	BH-17 5	Solid	06/16/22 00:00	06/20/22 16:30	5
890-2437-22	BH-18 5	Solid	06/16/22 00:00	06/20/22 16:30	5
890-2437-23	BH-19 5	Solid	06/16/22 00:00	06/20/22 16:30	5
890-2437-24	BH-20 5	Solid	06/16/22 00:00	06/20/22 16:30	5
890-2437-25	SW-5	Solid	06/16/22 00:00	06/20/22 16:30	5
890-2437-26	SW-6	Solid	06/16/22 00:00	06/20/22 16:30	6
890-2437-27	SW-7	Solid	06/16/22 00:00	06/20/22 16:30	7
890-2437-28	SW-8	Solid	06/16/22 00:00	06/20/22 16:30	8
890-2437-29	SW-9	Solid	06/16/22 00:00	06/20/22 16:30	9
890-2437-30	SW-10	Solid	06/16/22 00:00	06/20/22 16:30	10
890-2437-31	SW-11	Solid	06/16/22 00:00	06/20/22 16:30	11

Page 308 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

890-2437 Chain of Custody

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Solaris Palmilla to St HU Line	Contact Info:	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	Project #:	212C-MD-02473
Invoice to:	Accounts Payable 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel A. Flores
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	TIME	MATRIX WATER	SOIL		PRESERVATIVE METHOD HCL	HNO_3	ICE	None		# CONTAINERS	FILTERED (Y/N)	ANALYS BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-1 (4')	6/17/2022			X				X					X		X													X						
	BH-2 (4')	6/17/2022			X				X					X		X													X						
	BH-3 (4')	6/17/2022			X				X					X		X													X						
	BH-4 (4')	6/17/2022			X				X					X		X													X						
	BH-5 (4')	6/17/2022			X				X					X		X													X						
	BH-6 (4')	6/17/2022			X				X					X		X													X						
	BH-7 (5')	6/17/2022			X				X					X		X													X						
	BH-8 (5')	6/17/2022			X				X					X		X													X						
	BH-9 (5')	6/17/2022			X				X					X		X													X						
	SW-1	6/17/2022			X				X					X		X													X						

Relinquished by: Miguel A. Flores	Date: 6/20/22	Time: 1630	Received by: Amanda Stuff
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature
2.2
2.0

REMARKS:
- [X] STANDARD M.F.
- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

-2.0
TAM-007

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

6/29/2022

Page 309 of 703

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	**Site Manager:**	Clair Gonzales
Project Name:	Solaris Palmilla to St HU Line	**Contact Info:**	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	**Project #:**	212C-MD-02473
Invoice to:	Accounts Payable 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate TDS	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	SW-2	6/17/2022			X				X					X			X												X									
	SW-3	6/17/2022			X				X					X			X												X									
	SW-4	6/17/2022			X				X					X			X												X									
	BH-10 (2')	6/16/2022			X				X					X			X												X									
	BH-11 (2')	6/16/2022			X				X					X			X												X									
	BH-12 (2')	6/16/2022			X				X					X			X												X									
	BH-13 (2')	6/16/2022			X				X					X			X												X									
	BH-14 (2')	6/16/2022			X				X					X			X												X									
	BH-15 (5')	6/16/2022			X				X					X			X												X									
	BH-16 (5')	6/16/2022			X				X					X			X												X									

Relinquished by: Miguel A. Flores	Date: 6/20/22	Time: 1630	Received by: Amanda Stefan
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY
Sample Temperature: Pg 1

REMARKS:
- [X] STANDARD M.F.
- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 310 of 703

Analysis Request of Chain of Custody Record

6/29/2022

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Clair Gonzales
Project Name:	Solaris Palmilla to St HU Line	Contact Info:	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	Project #:	212C-MD-02473
Invoice to:	Accounts Payable 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 60B	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-17 (5')	6/16/2022			X				X					X		X												X							
	BH-18 (5')	6/16/2022			X				X					X		X												X							
	BH-19 (5')	6/16/2022			X				X					X		X												X							
	BH-20 (5')	6/16/2022			X				X					X		X												X							
	SW-5	6/16/2022			X				X					X		X												X							
	SW-6	6/16/2022			X				X					X		X												X							
	SW-7	6/16/2022			X				X					X		X												X							
	SW-8	6/16/2022			X				X					X		X												X							
	SW-9	6/16/2022			X				X					X		X												X							
	SW-10	6/16/2022			X				X					X		X												X							

Relinquished by:	Date: 6/20/22 Time: 1630	Received by: Amanda Stuyt	Date: 6/20/22 Time: 16:30
Relinquished by:	Date: Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received by:	Date: Time:

LAB USE ONLY
Sample Temperature
Pg 1

REMARKS:
☒ STANDARD M.F.
☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 311 of 703

Analysis Request of Chain of Custody Record

6/29/2022

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Clair Gonzales
Project Name:	Solaris Palmilla to St HU Line	Contact Info:	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	Project #:	212C-MD-02473
Invoice to:	Accounts Payable 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BTEX 8260B																																		
	SW-11	6/16/2022			X				X					X		X												X							

Relinquished by:	Date: 6/20/22	Time: 1630	Received by: Amanda Stutz Date: 6/20/22 Time: 1630
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY
Sample Temperature
pg 1

REMARKS:
☒ STANDARD M.F.
☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2437-1
SDG Number: Carlsbad NM

Login Number: 2437
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2437-1
SDG Number: Carlsbad NM

Login Number: 2437
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/22/22 10:50 AM

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

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-2451-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: Solaris Palmilla to St HO Line

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

Attn: Brittany Long

JKramer

Authorized for release by:
6/30/2022 8:52:49 PM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 11
QC Sample Results 13
QC Association Summary 20
Lab Chronicle 23
Certification Summary 26
Method Summary 27
Sample Summary 28
Chain of Custody 29
Receipt Checklists 30

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2451-1
Project/Site: Solaris Palmilla to St HO Line SDG: Carlsbad NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Job ID: 890-2451-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2451-1

Receipt
The samples were received on 6/22/2022 4:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA
Method 8021B: LCSD outside acceptance limits for o xylene. Since all that's required by method is an LCS and the RPD was acceptable, the data was reported.(LCSD 880-28310/2-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28310 and analytical batch 880-28308 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 880-28310 and analytical batch 880-28308 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2451-1
Project/Site: Solaris Palmilla to St HO Line SDG: Carlsbad NM

Client Sample ID: BH-21 Lab Sample ID: 890-2451-1

Date Collected: 06/21/22 00:00 **Matrix: Solid**
Date Received: 06/22/22 16:34
Sample Depth: 5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/22 09:29	06/24/22 18:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/22 09:29	06/24/22 18:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/22 09:29	06/24/22 18:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/24/22 09:29	06/24/22 18:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/24/22 09:29	06/24/22 18:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/22 09:29	06/24/22 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/24/22 09:29*	*06/24/22 18:53*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/24/22 09:29*	*06/24/22 18:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/27/22 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/27/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 18:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*06/24/22 07:38*	*06/24/22 18:03*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/24/22 07:38*	*06/24/22 18:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**880**		5.05		mg/Kg			06/30/22 09:44	1

Client Sample ID: BH-22 Lab Sample ID: 890-2451-2

Date Collected: 06/21/22 00:00 **Matrix: Solid**
Date Received: 06/22/22 16:34
Sample Depth: 5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:29	06/24/22 19:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:29	06/24/22 19:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:29	06/24/22 19:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/24/22 09:29	06/24/22 19:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:29	06/24/22 19:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/22 09:29	06/24/22 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/24/22 09:29*	*06/24/22 19:14*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Client Sample ID: BH-22

Lab Sample ID: 890-2451-2
Matrix: Solid
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*06/24/22 09:29*	*06/24/22 19:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/27/22 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/27/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 18:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 18:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*119*		*70 - 130*	*06/24/22 07:38*	*06/24/22 18:24*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/24/22 07:38*	*06/24/22 18:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**349**		4.99		mg/Kg			06/30/22 09:53	1

Client Sample ID: BH-23

Lab Sample ID: 890-2451-3
Matrix: Solid
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:29	06/24/22 19:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:29	06/24/22 19:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:29	06/24/22 19:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/24/22 09:29	06/24/22 19:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:29	06/24/22 19:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/22 09:29	06/24/22 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/24/22 09:29*	*06/24/22 19:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/24/22 09:29*	*06/24/22 19:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/27/22 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/27/22 09:26	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Client Sample ID: BH-23

Lab Sample ID: 890-2451-3
Matrix: Solid
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/22 07:38	06/24/22 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/22 07:38	06/24/22 18:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/22 07:38	06/24/22 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*06/24/22 07:38*	*06/24/22 18:45*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/24/22 07:38*	*06/24/22 18:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**209**		5.04		mg/Kg			06/30/22 10:03	1

Client Sample ID: SW-12

Lab Sample ID: 890-2451-4
Matrix: Solid
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 19:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 19:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 19:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/24/22 09:32	06/24/22 19:01	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		06/24/22 09:32	06/24/22 19:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/24/22 09:32	06/24/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/24/22 09:32*	*06/24/22 19:01*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/24/22 09:32*	*06/24/22 19:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/27/22 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/27/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/22 07:38	06/24/22 19:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/22 07:38	06/24/22 19:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/22 07:38	06/24/22 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*06/24/22 07:38*	*06/24/22 19:06*	*1*
o-Terphenyl	*125*		*70 - 130*	*06/24/22 07:38*	*06/24/22 19:06*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Client Sample ID: SW-12

Lab Sample ID: 890-2451-4
Matrix: Solid
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.1		5.04		mg/Kg			06/30/22 10:12	1

Client Sample ID: SW-13

Lab Sample ID: 890-2451-5
Matrix: Solid
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 19:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/24/22 09:32	06/24/22 19:22	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		06/24/22 09:32	06/24/22 19:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/22 09:32	06/24/22 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/24/22 09:32*	*06/24/22 19:22*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/24/22 09:32*	*06/24/22 19:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/27/22 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/27/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/22 07:40	06/24/22 18:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/22 07:40	06/24/22 18:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/22 07:40	06/24/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane				*06/24/22 07:40*	*06/24/22 18:04*	*1*
o-Terphenyl				*06/24/22 07:40*	*06/24/22 18:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263		4.98		mg/Kg			06/30/22 10:21	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Client Sample ID: SW-14

Lab Sample ID: 890-2451-6
Matrix: Solid
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:32	06/24/22 19:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:32	06/24/22 19:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/22 09:32	06/24/22 19:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/24/22 09:32	06/24/22 19:42	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		06/24/22 09:32	06/24/22 19:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/22 09:32	06/24/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/24/22 09:32*	*06/24/22 19:42*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/24/22 09:32*	*06/24/22 19:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/27/22 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/27/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/22 07:40	06/24/22 18:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/22 07:40	06/24/22 18:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/22 07:40	06/24/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane				*06/24/22 07:40*	*06/24/22 18:25*	*1*
o-Terphenyl				*06/24/22 07:40*	*06/24/22 18:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		5.00		mg/Kg			06/30/22 10:49	1

Client Sample ID: SW-15

Lab Sample ID: 890-2451-7
Matrix: Solid
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/22 09:32	06/24/22 20:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/22 09:32	06/24/22 20:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/22 09:32	06/24/22 20:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/24/22 09:32	06/24/22 20:02	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		06/24/22 09:32	06/24/22 20:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/22 09:32	06/24/22 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/24/22 09:32*	*06/24/22 20:02*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Client Sample ID: SW-15
Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34
Sample Depth: 5'

Lab Sample ID: 890-2451-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/24/22 09:32*	*06/24/22 20:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/27/22 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/27/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/22 07:40	06/24/22 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/22 07:40	06/24/22 18:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/22 07:40	06/24/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane				*06/24/22 07:40*	*06/24/22 18:47*	*1*
o-Terphenyl				*06/24/22 07:40*	*06/24/22 18:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.2**		5.03		mg/Kg			06/30/22 10:58	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad 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)
880-16269-A-1-A MS	Matrix Spike	108	95
880-16269-A-1-B MSD	Matrix Spike Duplicate	105	93
880-16270-A-1-A MS	Matrix Spike	102	104
880-16270-A-1-B MSD	Matrix Spike Duplicate	101	101
890-2451-1	BH-21	107	84
890-2451-2	BH-22	102	81
890-2451-3	BH-23	114	92
890-2451-4	SW-12	104	99
890-2451-5	SW-13	101	99
890-2451-6	SW-14	108	97
890-2451-7	SW-15	111	102
LCS 880-28309/1-A	Lab Control Sample	107	97
LCS 880-28310/1-A	Lab Control Sample	102	100
LCSD 880-28309/2-A	Lab Control Sample Dup	107	96
LCSD 880-28310/2-A	Lab Control Sample Dup	105	103
MB 880-28309/5-A	Method Blank	102	89
MB 880-28310/5-A	Method Blank	95	96

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-16269-A-1-E MS	Matrix Spike	102	94
880-16269-A-1-F MSD	Matrix Spike Duplicate	94	85
880-16273-A-1-C MS	Matrix Spike	99	100
880-16273-A-1-D MSD	Matrix Spike Duplicate	105	105
890-2451-1	BH-21	116	121
890-2451-2	BH-22	119	121
890-2451-3	BH-23	118	122
890-2451-4	SW-12	120	125
LCS 880-28301/2-A	Lab Control Sample	101	100
LCS 880-28302/2-A	Lab Control Sample	91	104
LCSD 880-28301/3-A	Lab Control Sample Dup	98	102
LCSD 880-28302/3-A	Lab Control Sample Dup	100	117
MB 880-28301/1-A	Method Blank	99	104
MB 880-28302/1-A	Method Blank	107	122

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2451-1
Project/Site: Solaris Palmilla to St HO Line SDG: Carlsbad NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	**Client Sample ID**								
890-2451-5	SW-13								
890-2451-6	SW-14								
890-2451-7	SW-15								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28309/5-A
Matrix: Solid
Analysis Batch: 28306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:29	06/24/22 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:29	06/24/22 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:29	06/24/22 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/24/22 09:29	06/24/22 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:29	06/24/22 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/22 09:29	06/24/22 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/24/22 09:29*	*06/24/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/24/22 09:29*	*06/24/22 11:41*	*1*

Lab Sample ID: LCS 880-28309/1-A
Matrix: Solid
Analysis Batch: 28306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28309

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1030		mg/Kg		103	70 - 130		
Toluene			0.100	0.1018		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1052		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2159		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1075		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-28309/2-A
Matrix: Solid
Analysis Batch: 28306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28309

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09436		mg/Kg		94	70 - 130	9	35
Toluene			0.100	0.09305		mg/Kg		93	70 - 130	9	35
Ethylbenzene			0.100	0.09657		mg/Kg		97	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.1979		mg/Kg		99	70 - 130	9	35
o-Xylene			0.100	0.09869		mg/Kg		99	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-16269-A-1-A MS
Matrix: Solid
Analysis Batch: 28306

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.08752		mg/Kg		88	70 - 130		
Toluene	<0.00200	U	0.0998	0.08823		mg/Kg		88	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2451-1
Project/Site: Solaris Palmilla to St HO Line SDG: Carlsbad NM

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

Lab Sample ID: 880-16269-A-1-A MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28306 **Prep Batch: 28309**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09061		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1858		mg/Kg		93	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09266		mg/Kg		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-16269-A-1-B MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28306 **Prep Batch: 28309**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.07954		mg/Kg		80	70 - 130	10	35
Toluene	<0.00200	U	0.0996	0.08725		mg/Kg		88	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0996	0.09474		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1938		mg/Kg		97	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.09513		mg/Kg		95	70 - 130	3	35

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

Lab Sample ID: MB 880-28310/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28308 **Prep Batch: 28310**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 13:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 13:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 13:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/24/22 09:32	06/24/22 13:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/22 09:32	06/24/22 13:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/22 09:32	06/24/22 13:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/24/22 09:32*	*06/24/22 13:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/24/22 09:32*	*06/24/22 13:37*	*1*

Lab Sample ID: LCS 880-28310/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28308 **Prep Batch: 28310**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1112		mg/Kg		111	70 - 130
Toluene	0.100	0.1141		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1185		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2434		mg/Kg		122	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-28310/1-A
Matrix: Solid
Analysis Batch: 28308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1178		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-28310/2-A
Matrix: Solid
Analysis Batch: 28308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1122		mg/Kg		112	70 - 130	1	35
Toluene			0.100	0.1173		mg/Kg		117	70 - 130	3	35
Ethylbenzene			0.100	0.1132		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2304		mg/Kg		115	70 - 130	5	35
o-Xylene			0.100	0.1306	*+	mg/Kg		131	70 - 130	10	35

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

Lab Sample ID: 880-16270-A-1-A MS
Matrix: Solid
Analysis Batch: 28308

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.1138		mg/Kg		112	70 - 130		
Toluene	0.0362		0.100	0.1175		mg/Kg		81	70 - 130		
Ethylbenzene	0.0254		0.100	0.1059		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene	0.0340		0.200	0.2089		mg/Kg		87	70 - 130		
o-Xylene	0.0528	*+ F1	0.100	0.1182	F1	mg/Kg		65	70 - 130		

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

Lab Sample ID: 880-16270-A-1-B MSD
Matrix: Solid
Analysis Batch: 28308

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.1245		mg/Kg		124	70 - 130	9	35
Toluene	0.0362		0.0996	0.1236		mg/Kg		88	70 - 130	5	35
Ethylbenzene	0.0254		0.0996	0.1255		mg/Kg		100	70 - 130	17	35
m-Xylene & p-Xylene	0.0340		0.199	0.2515		mg/Kg		109	70 - 130	18	35
o-Xylene	0.0528	*+ F1	0.0996	0.1192	F1	mg/Kg		67	70 - 130	1	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

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

Lab Sample ID: 880-16270-A-1-B MSD
Matrix: Solid
Analysis Batch: 28308

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28310

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

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

Lab Sample ID: MB 880-28301/1-A
Matrix: Solid
Analysis Batch: 28297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 10:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 10:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/22 07:38	06/24/22 10:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	06/24/22 07:38	06/24/22 10:24	1
o-Terphenyl	104		70 - 130	06/24/22 07:38	06/24/22 10:24	1

Lab Sample ID: LCS 880-28301/2-A
Matrix: Solid
Analysis Batch: 28297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28301

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	904.8		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	915.2		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-28301/3-A
Matrix: Solid
Analysis Batch: 28297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28301

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	917.1		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	920.7		mg/Kg		92	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	102		70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2451-1
Project/Site: Solaris Palmilla to St HO Line SDG: Carlsbad NM

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

Lab Sample ID: 880-16269-A-1-E MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28297 **Prep Batch: 28301**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	945.9		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	815.4		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-16269-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28297 **Prep Batch: 28301**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	796.0		mg/Kg		78	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	761.3		mg/Kg		76	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: MB 880-28302/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28293 **Prep Batch: 28302**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/22 07:40	06/24/22 09:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/22 07:40	06/24/22 09:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/22 07:40	06/24/22 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/24/22 07:40*	*06/24/22 09:46*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/24/22 07:40*	*06/24/22 09:46*	*1*

Lab Sample ID: LCS 880-28302/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28293 **Prep Batch: 28302**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	782.3		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	1000	925.7		mg/Kg		93	70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2451-1
Project/Site: Solaris Palmilla to St HO Line SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-28302/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28293 **Prep Batch: 28302**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-28302/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28293 **Prep Batch: 28302**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	815.9		mg/Kg		82	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	998.3		mg/Kg		100	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 880-16273-A-1-C MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28293 **Prep Batch: 28302**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1048		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1002		mg/Kg		100	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-16273-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 28293 **Prep Batch: 28302**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1158		mg/Kg		112	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1067		mg/Kg		107	70 - 130	6	20

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

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28288/1-A
Matrix: Solid
Analysis Batch: 28657

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/30/22 07:44	1

Lab Sample ID: LCS 880-28288/2-A
Matrix: Solid
Analysis Batch: 28657

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	270.1		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-28288/3-A
Matrix: Solid
Analysis Batch: 28657

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	270.9		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-2451-5 MS
Matrix: Solid
Analysis Batch: 28657

Client Sample ID: SW-13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	263		249	522.8		mg/Kg		104	90 - 110		

Lab Sample ID: 890-2451-5 MSD
Matrix: Solid
Analysis Batch: 28657

Client Sample ID: SW-13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	263		249	523.0		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

GC VOA

Analysis Batch: 28306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-1	BH-21	Total/NA	Solid	8021B	28309
890-2451-2	BH-22	Total/NA	Solid	8021B	28309
890-2451-3	BH-23	Total/NA	Solid	8021B	28309
MB 880-28309/5-A	Method Blank	Total/NA	Solid	8021B	28309
LCS 880-28309/1-A	Lab Control Sample	Total/NA	Solid	8021B	28309
LCSD 880-28309/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28309
880-16269-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	28309
880-16269-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28309

Analysis Batch: 28308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-4	SW-12	Total/NA	Solid	8021B	28310
890-2451-5	SW-13	Total/NA	Solid	8021B	28310
890-2451-6	SW-14	Total/NA	Solid	8021B	28310
890-2451-7	SW-15	Total/NA	Solid	8021B	28310
MB 880-28310/5-A	Method Blank	Total/NA	Solid	8021B	28310
LCS 880-28310/1-A	Lab Control Sample	Total/NA	Solid	8021B	28310
LCSD 880-28310/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28310
880-16270-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	28310
880-16270-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28310

Prep Batch: 28309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-1	BH-21	Total/NA	Solid	5035	
890-2451-2	BH-22	Total/NA	Solid	5035	
890-2451-3	BH-23	Total/NA	Solid	5035	
MB 880-28309/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28309/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28309/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16269-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-16269-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 28310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-4	SW-12	Total/NA	Solid	5035	
890-2451-5	SW-13	Total/NA	Solid	5035	
890-2451-6	SW-14	Total/NA	Solid	5035	
890-2451-7	SW-15	Total/NA	Solid	5035	
MB 880-28310/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28310/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28310/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16270-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-16270-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-1	BH-21	Total/NA	Solid	Total BTEX	
890-2451-2	BH-22	Total/NA	Solid	Total BTEX	
890-2451-3	BH-23	Total/NA	Solid	Total BTEX	
890-2451-4	SW-12	Total/NA	Solid	Total BTEX	
890-2451-5	SW-13	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

GC VOA (Continued)

Analysis Batch: 28461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-6	SW-14	Total/NA	Solid	Total BTEX	
890-2451-7	SW-15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 28293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-5	SW-13	Total/NA	Solid	8015B NM	28302
890-2451-6	SW-14	Total/NA	Solid	8015B NM	28302
890-2451-7	SW-15	Total/NA	Solid	8015B NM	28302
MB 880-28302/1-A	Method Blank	Total/NA	Solid	8015B NM	28302
LCS 880-28302/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28302
LCSD 880-28302/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28302
880-16273-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	28302
880-16273-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28302

Analysis Batch: 28297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-1	BH-21	Total/NA	Solid	8015B NM	28301
890-2451-2	BH-22	Total/NA	Solid	8015B NM	28301
890-2451-3	BH-23	Total/NA	Solid	8015B NM	28301
890-2451-4	SW-12	Total/NA	Solid	8015B NM	28301
MB 880-28301/1-A	Method Blank	Total/NA	Solid	8015B NM	28301
LCS 880-28301/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28301
LCSD 880-28301/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28301
880-16269-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	28301
880-16269-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28301

Prep Batch: 28301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-1	BH-21	Total/NA	Solid	8015NM Prep	
890-2451-2	BH-22	Total/NA	Solid	8015NM Prep	
890-2451-3	BH-23	Total/NA	Solid	8015NM Prep	
890-2451-4	SW-12	Total/NA	Solid	8015NM Prep	
MB 880-28301/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28301/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28301/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16269-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16269-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 28302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-5	SW-13	Total/NA	Solid	8015NM Prep	
890-2451-6	SW-14	Total/NA	Solid	8015NM Prep	
890-2451-7	SW-15	Total/NA	Solid	8015NM Prep	
MB 880-28302/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28302/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28302/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16273-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16273-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

GC Semi VOA

Analysis Batch: 28422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-1	BH-21	Total/NA	Solid	8015 NM	
890-2451-2	BH-22	Total/NA	Solid	8015 NM	
890-2451-3	BH-23	Total/NA	Solid	8015 NM	
890-2451-4	SW-12	Total/NA	Solid	8015 NM	
890-2451-5	SW-13	Total/NA	Solid	8015 NM	
890-2451-6	SW-14	Total/NA	Solid	8015 NM	
890-2451-7	SW-15	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 28288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-1	BH-21	Soluble	Solid	DI Leach	
890-2451-2	BH-22	Soluble	Solid	DI Leach	
890-2451-3	BH-23	Soluble	Solid	DI Leach	
890-2451-4	SW-12	Soluble	Solid	DI Leach	
890-2451-5	SW-13	Soluble	Solid	DI Leach	
890-2451-6	SW-14	Soluble	Solid	DI Leach	
890-2451-7	SW-15	Soluble	Solid	DI Leach	
MB 880-28288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28288/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2451-5 MS	SW-13	Soluble	Solid	DI Leach	
890-2451-5 MSD	SW-13	Soluble	Solid	DI Leach	

Analysis Batch: 28657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2451-1	BH-21	Soluble	Solid	300.0	28288
890-2451-2	BH-22	Soluble	Solid	300.0	28288
890-2451-3	BH-23	Soluble	Solid	300.0	28288
890-2451-4	SW-12	Soluble	Solid	300.0	28288
890-2451-5	SW-13	Soluble	Solid	300.0	28288
890-2451-6	SW-14	Soluble	Solid	300.0	28288
890-2451-7	SW-15	Soluble	Solid	300.0	28288
MB 880-28288/1-A	Method Blank	Soluble	Solid	300.0	28288
LCS 880-28288/2-A	Lab Control Sample	Soluble	Solid	300.0	28288
LCSD 880-28288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28288
890-2451-5 MS	SW-13	Soluble	Solid	300.0	28288
890-2451-5 MSD	SW-13	Soluble	Solid	300.0	28288

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Client Sample ID: BH-21

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	28309	06/24/22 09:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28306	06/24/22 18:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28461	06/27/22 12:48	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28422	06/27/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28301	06/24/22 07:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28297	06/24/22 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28288	06/23/22 18:32	SMC	XEN MID
Soluble	Analysis	300.0		1			28657	06/30/22 09:44	CH	XEN MID

Client Sample ID: BH-22

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28309	06/24/22 09:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28306	06/24/22 19:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28461	06/27/22 12:48	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28422	06/27/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28301	06/24/22 07:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28297	06/24/22 18:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28288	06/23/22 18:32	SMC	XEN MID
Soluble	Analysis	300.0		1			28657	06/30/22 09:53	CH	XEN MID

Client Sample ID: BH-23

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28309	06/24/22 09:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28306	06/24/22 19:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28461	06/27/22 12:48	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28422	06/27/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28301	06/24/22 07:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28297	06/24/22 18:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28288	06/23/22 18:32	SMC	XEN MID
Soluble	Analysis	300.0		1			28657	06/30/22 10:03	CH	XEN MID

Client Sample ID: SW-12

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28310	06/24/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28308	06/24/22 19:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28461	06/27/22 12:48	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Client Sample ID: SW-12

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-4

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			28422	06/27/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28301	06/24/22 07:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28297	06/24/22 19:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28288	06/23/22 18:32	SMC	XEN MID
Soluble	Analysis	300.0		1			28657	06/30/22 10:12	CH	XEN MID

Client Sample ID: SW-13

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28310	06/24/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28308	06/24/22 19:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28461	06/27/22 12:48	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28422	06/27/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28302	06/24/22 07:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28293	06/24/22 18:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28288	06/23/22 18:32	SMC	XEN MID
Soluble	Analysis	300.0		1			28657	06/30/22 10:21	CH	XEN MID

Client Sample ID: SW-14

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-6

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	28310	06/24/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28308	06/24/22 19:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28461	06/27/22 12:48	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28422	06/27/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28302	06/24/22 07:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28293	06/24/22 18:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28288	06/25/22 10:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28657	06/30/22 10:49	CH	XEN MID

Client Sample ID: SW-15

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-7

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			4.97 g	5 mL	28310	06/24/22 09:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28308	06/24/22 20:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28461	06/27/22 12:48	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28422	06/27/22 09:26	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28302	06/24/22 07:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28293	06/24/22 18:47	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Client Sample ID: SW-15

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 16:34

Lab Sample ID: 890-2451-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	28288	06/25/22 10:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28657	06/30/22 10:58	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad 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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HO Line

Job ID: 890-2451-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2451-1	BH-21	Solid	06/21/22 00:00	06/22/22 16:34	5'
890-2451-2	BH-22	Solid	06/21/22 00:00	06/22/22 16:34	5'
890-2451-3	BH-23	Solid	06/21/22 00:00	06/22/22 16:34	5'
890-2451-4	SW-12	Solid	06/21/22 00:00	06/22/22 16:34	5'
890-2451-5	SW-13	Solid	06/21/22 00:00	06/22/22 16:34	5'
890-2451-6	SW-14	Solid	06/21/22 00:00	06/22/22 16:34	5'
890-2451-7	SW-15	Solid	06/21/22 00:00	06/22/22 16:34	5'

Page 342 of 703

6/30/2022

Analysis Request of Chain of Custody Record

Page 1 of 1

Tetra Tech, Inc.

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

Client Name: Solaris

Site Manager: Brittany Long

Project Name: Solaris Paloma Lk to SWD Line (432) 741-5813 Brittany.Long@tetratech.com

Project Location: (county, state) Callsbad, NM

Project #: 212C-MD-02473

Invoice to: Tetra Tech Accounts Payable 901 W. Wall Street, Suite 100 Midland, Tx 79701

Receiving Laboratory: Eurofins Xenco

Sampler Signature: Miguel A. Flores

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	TIME	MATRIX WATER	SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)
	BH-21 (5')	6/21/22			X			X		
	BH-22 (5')				X			X		
	BH-23 (5')				X			X		
	SW-12				X			X		
	SW-13				X			X		
	SW-14				X			X		
	SW-15	↓			X			X		

ANALYSIS REQUEST (Circle or Specify Method No.)

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

Relinquished by: Miguel A. Flores Date: 6/22/22 Time: 1635

Received by: Amanda Stuff Date: 6/22/22 Time: 1634

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 6.0 5.8

REMARKS: Standard

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

890-2451 Chain of Custody

TNM-007
-0.2

Page 29 of 31

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2451-1
SDG Number: Carlsbad NM

Login Number: 2451
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2451-1
SDG Number: Carlsbad NM

Login Number: 2451
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/24/22 10:54 AM

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

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-2498-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: Solaris Palmilla to St HU Line

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

Attn: Brittany Long

JKramer

Authorized for release by:
7/8/2022 8:28:01 PM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 8
QC Sample Results 9
QC Association Summary 13
Lab Chronicle 15
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 21

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2498-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

Job ID: 890-2498-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2498-1

Receipt
The samples were received on 7/5/2022 8:08 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

GC VOA
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 sample was outside control limits: SW-43 (890-2498-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-29141 and analytical batch 880-29208 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

Client Sample ID: SW-43

Lab Sample ID: 890-2498-1
Date Collected: 07/01/22 00:00
Matrix: Solid
Date Received: 07/05/22 08:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:06	07/08/22 18:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:06	07/08/22 18:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:06	07/08/22 18:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/07/22 14:06	07/08/22 18:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:06	07/08/22 18:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/07/22 14:06	07/08/22 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/07/22 14:06*	*07/08/22 18:27*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/07/22 14:06*	*07/08/22 18:27*	*1*

Method: 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			07/08/22 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/08/22 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/05/22 14:48	07/07/22 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/05/22 14:48	07/07/22 17:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/05/22 14:48	07/07/22 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*07/05/22 14:48*	*07/07/22 17:10*	*1*
o-Terphenyl	*71*		*70 - 130*	*07/05/22 14:48*	*07/07/22 17:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.4**		4.95		mg/Kg			07/07/22 14:50	1

Client Sample ID: SW-44

Lab Sample ID: 890-2498-2
Date Collected: 07/01/22 00:00
Matrix: Solid
Date Received: 07/05/22 08:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:06	07/08/22 18:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:06	07/08/22 18:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:06	07/08/22 18:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/07/22 14:06	07/08/22 18:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:06	07/08/22 18:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/07/22 14:06	07/08/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/07/22 14:06*	*07/08/22 18:48*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/07/22 14:06*	*07/08/22 18:48*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

Client Sample ID: SW-44

Lab Sample ID: 890-2498-2
Date Collected: 07/01/22 00:00
Matrix: Solid
Date Received: 07/05/22 08:08

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/08/22 21:20	1

Method: 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			07/08/22 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/22 14:48	07/07/22 17:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/05/22 14:48	07/07/22 17:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/05/22 14:48	07/07/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/05/22 14:48*	*07/07/22 17:31*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/05/22 14:48*	*07/07/22 17:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.8**		5.04		mg/Kg			07/07/22 14:59	1

Client Sample ID: SW-45

Lab Sample ID: 890-2498-3
Date Collected: 07/01/22 00:00
Matrix: Solid
Date Received: 07/05/22 08:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:06	07/08/22 19:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:06	07/08/22 19:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:06	07/08/22 19:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:06	07/08/22 19:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:06	07/08/22 19:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:06	07/08/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/07/22 14:06*	*07/08/22 19:08*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/07/22 14:06*	*07/08/22 19:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/08/22 21:20	1

Method: 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			07/08/22 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/22 14:48	07/07/22 17:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/05/22 14:48	07/07/22 17:53	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

Client Sample ID: SW-45
Date Collected: 07/01/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2498-3
Matrix: Solid

Method: 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)	<49.9	U	49.9		mg/Kg		07/05/22 14:48	07/07/22 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/05/22 14:48*	*07/07/22 17:53*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/05/22 14:48*	*07/07/22 17:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		4.98		mg/Kg			07/07/22 15:08	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad 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)										
820-4878-A-1-A MS	Matrix Spike	115	100										
820-4878-A-1-B MSD	Matrix Spike Duplicate	112	104										
890-2498-1	SW-43	115	95										
890-2498-2	SW-44	110	96										
890-2498-3	SW-45	111	90										
LCS 880-29210/1-A	Lab Control Sample	107	99										
LCSD 880-29210/2-A	Lab Control Sample Dup	108	102										
MB 880-29210/5-A	Method Blank	102	92										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-16557-A-1-E MS	Matrix Spike	118	106										
880-16557-A-1-F MSD	Matrix Spike Duplicate	120	112										
890-2498-1	SW-43	67 S1-	71										
890-2498-2	SW-44	83	89										
890-2498-3	SW-45	86	99										
LCS 880-29059/2-A	Lab Control Sample	101	97										
LCSD 880-29059/3-A	Lab Control Sample Dup	89	89										
MB 880-29059/1-A	Method Blank	116	125										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29210/5-A
Matrix: Solid
Analysis Batch: 29260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:06	07/08/22 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:06	07/08/22 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:06	07/08/22 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:06	07/08/22 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:06	07/08/22 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:06	07/08/22 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/07/22 14:06*	*07/08/22 11:15*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/07/22 14:06*	*07/08/22 11:15*	*1*

Lab Sample ID: LCS 880-29210/1-A
Matrix: Solid
Analysis Batch: 29260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09922		mg/Kg		99	70 - 130
Toluene	0.100	0.09854		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2130		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130

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

Lab Sample ID: LCSD 880-29210/2-A
Matrix: Solid
Analysis Batch: 29260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29210

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1065		mg/Kg		106	70 - 130	7	35
Toluene	0.100	0.1040		mg/Kg		104	70 - 130	5	35
Ethylbenzene	0.100	0.1089		mg/Kg		109	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2239		mg/Kg		112	70 - 130	5	35
o-Xylene	0.100	0.1120		mg/Kg		112	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 820-4878-A-1-A MS
Matrix: Solid
Analysis Batch: 29260

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.101	0.08869		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.101	0.08726		mg/Kg		86	70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2498-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

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

Lab Sample ID: 820-4878-A-1-A MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 29260 **Prep Batch: 29210**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00925		0.101	0.09060		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.00574		0.202	0.1843		mg/Kg		88	70 - 130
o-Xylene	<0.00200	U	0.101	0.08768		mg/Kg		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 820-4878-A-1-B MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 29260 **Prep Batch: 29210**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09840		mg/Kg		98	70 - 130	10	35
Toluene	<0.00200	U	0.100	0.08736		mg/Kg		87	70 - 130	0	35
Ethylbenzene	0.00925		0.100	0.08793		mg/Kg		79	70 - 130	3	35
m-Xylene & p-Xylene	0.00574		0.200	0.1713		mg/Kg		83	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.08417		mg/Kg		84	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-29059/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 29169 **Prep Batch: 29059**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/05/22 14:48	07/07/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/05/22 14:48	07/07/22 10:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/05/22 14:48	07/07/22 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*07/05/22 14:48*	*07/07/22 10:03*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/05/22 14:48*	*07/07/22 10:03*	*1*

Lab Sample ID: LCS 880-29059/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 29169 **Prep Batch: 29059**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	976.2		mg/Kg		98	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-29059/2-A
Matrix: Solid
Analysis Batch: 29169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29059

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-29059/3-A
Matrix: Solid
Analysis Batch: 29169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29059

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1074		mg/Kg		107	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	887.6		mg/Kg		89	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-16557-A-1-E MS
Matrix: Solid
Analysis Batch: 29169

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1188		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1078		mg/Kg		104	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-16557-A-1-F MSD
Matrix: Solid
Analysis Batch: 29169

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1190		mg/Kg		116	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1133		mg/Kg		109	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	112		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29141/1-A
Matrix: Solid
Analysis Batch: 29208

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/07/22 12:41	1

Lab Sample ID: LCS 880-29141/2-A
Matrix: Solid
Analysis Batch: 29208

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.8		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-29141/3-A
Matrix: Solid
Analysis Batch: 29208

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	234.5		mg/Kg		94	90 - 110	3	20

Lab Sample ID: 880-16616-A-1-B MS
Matrix: Solid
Analysis Batch: 29208

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	1240		250	1461	4	mg/Kg		90	90 - 110		

Lab Sample ID: 880-16616-A-1-C MSD
Matrix: Solid
Analysis Batch: 29208

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	1240		250	1461	4	mg/Kg		89	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

GC VOA

Prep Batch: 29210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2498-1	SW-43	Total/NA	Solid	5035	
890-2498-2	SW-44	Total/NA	Solid	5035	
890-2498-3	SW-45	Total/NA	Solid	5035	
MB 880-29210/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29210/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29210/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-4878-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
820-4878-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2498-1	SW-43	Total/NA	Solid	8021B	29210
890-2498-2	SW-44	Total/NA	Solid	8021B	29210
890-2498-3	SW-45	Total/NA	Solid	8021B	29210
MB 880-29210/5-A	Method Blank	Total/NA	Solid	8021B	29210
LCS 880-29210/1-A	Lab Control Sample	Total/NA	Solid	8021B	29210
LCSD 880-29210/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29210
820-4878-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	29210
820-4878-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29210

Analysis Batch: 29346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2498-1	SW-43	Total/NA	Solid	Total BTEX	
890-2498-2	SW-44	Total/NA	Solid	Total BTEX	
890-2498-3	SW-45	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2498-1	SW-43	Total/NA	Solid	8015NM Prep	
890-2498-2	SW-44	Total/NA	Solid	8015NM Prep	
890-2498-3	SW-45	Total/NA	Solid	8015NM Prep	
MB 880-29059/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29059/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29059/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16557-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16557-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2498-1	SW-43	Total/NA	Solid	8015B NM	29059
890-2498-2	SW-44	Total/NA	Solid	8015B NM	29059
890-2498-3	SW-45	Total/NA	Solid	8015B NM	29059
MB 880-29059/1-A	Method Blank	Total/NA	Solid	8015B NM	29059
LCS 880-29059/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29059
LCSD 880-29059/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29059
880-16557-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	29059
880-16557-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29059

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

GC Semi VOA

Analysis Batch: 29307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2498-1	SW-43	Total/NA	Solid	8015 NM	
890-2498-2	SW-44	Total/NA	Solid	8015 NM	
890-2498-3	SW-45	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2498-1	SW-43	Soluble	Solid	DI Leach	
890-2498-2	SW-44	Soluble	Solid	DI Leach	
890-2498-3	SW-45	Soluble	Solid	DI Leach	
MB 880-29141/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29141/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29141/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16616-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-16616-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 29208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2498-1	SW-43	Soluble	Solid	300.0	29141
890-2498-2	SW-44	Soluble	Solid	300.0	29141
890-2498-3	SW-45	Soluble	Solid	300.0	29141
MB 880-29141/1-A	Method Blank	Soluble	Solid	300.0	29141
LCS 880-29141/2-A	Lab Control Sample	Soluble	Solid	300.0	29141
LCSD 880-29141/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29141
880-16616-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	29141
880-16616-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	29141

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

Client Sample ID: SW-43

Date Collected: 07/01/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2498-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29210	07/07/22 14:06	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29260	07/08/22 18:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29346	07/08/22 21:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29307	07/08/22 13:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29059	07/05/22 14:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29169	07/07/22 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29141	07/07/22 10:00	CH	XEN MID
Soluble	Analysis	300.0		1			29208	07/07/22 14:50	CH	XEN MID

Client Sample ID: SW-44

Date Collected: 07/01/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2498-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29210	07/07/22 14:06	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29260	07/08/22 18:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29346	07/08/22 21:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29307	07/08/22 13:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29059	07/05/22 14:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29169	07/07/22 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29141	07/07/22 10:00	CH	XEN MID
Soluble	Analysis	300.0		1			29208	07/07/22 14:59	CH	XEN MID

Client Sample ID: SW-45

Date Collected: 07/01/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2498-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29210	07/07/22 14:06	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29260	07/08/22 19:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29346	07/08/22 21:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29307	07/08/22 13:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29059	07/05/22 14:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29169	07/07/22 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29141	07/07/22 10:00	CH	XEN MID
Soluble	Analysis	300.0		1			29208	07/07/22 15:08	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad 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: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2498-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2498-1	SW-43	Solid	07/01/22 00:00	07/05/22 08:08
890-2498-2	SW-44	Solid	07/01/22 00:00	07/05/22 08:08
890-2498-3	SW-45	Solid	07/01/22 00:00	07/05/22 08:08

Page 363 of 703

Analysis Request of Chain of Custody Record

7/8/2022

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Solaris Palmilla to St HU Line	Contact Info:	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	Project #:	212C-MD-02473
Invoice to:	Accounts Payable Tetra tech 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BTEX 8260B																																		
	SW-43	7/1/2022			X				X					X		X												X							
	SW-44	7/1/2022			X				X					X		X												X							
	SW-45	7/1/2022			X				X					X		X												X							

890-2498 Chain of Custody

Relinquished by:	Date: 7/5/22	Time: 0806	Received by:	Date: 7.5.22	Time: 0808
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY
Sample Temperature 5.8/5.6

REMARKS:
- [ ] STANDARD
- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 364 of 703

Eurofins Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-828 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2498-1
Address: 1211 W Florida Ave	Due Date Requested: 7/8/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: solaris palmilla to st hu lnew	Project #: 88000039			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FM_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035A_M_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
sw-43 (890-2498-1)	7/1/22	Mountain		Solid			X	X	X	X	X	X	1	
sw-44 (890-2498-2)	7/1/22	Mountain		Solid			X	X	X	X	X	X	1	
sw-45 (890-2498-3)	7/1/22	Mountain		Solid			X	X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time 7/5/22 1310	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.2/1.0

Ver: 06/08/2021

Received by OCD: 10/6/2022 6:47:08 AM
Page 20 of 22
7/8/2022
Released to Imaging: 10/17/2022 12:02:07 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2498-1
SDG Number: Carlsbad NM

Login Number: 2498
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2498-1
SDG Number: Carlsbad NM

Login Number: 2498
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 07/05/22 01:12 PM

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

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-2499-1
Laboratory Sample Delivery Group: Carlsbad NM
Client Project/Site: Solaris Palmilla to St HU Line

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

Attn: Brittany Long

JKramer

Authorized for release by:
7/11/2022 3:42:02 PM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 46
QC Sample Results 50
QC Association Summary 63
Lab Chronicle 75
Certification Summary 91
Method Summary 92
Sample Summary 93
Chain of Custody 94
Receipt Checklists 106

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2499-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Job ID: 890-2499-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2499-1

Receipt
The samples were received on 7/5/2022 8:08 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

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-29217 and analytical batch 880-29367 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 880-29095 and analytical batch 880-29112 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-29095 and analytical batch 880-29112 contained Gasoline Range Organics (GRO)-C6-C10 and OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-24 (5') (890-2499-1), (890-2499-A-1-E MS) and (890-2499-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-20 (890-2499-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-25 (890-2499-35). 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 for preparation batch 880-29093 and analytical batch 880-29117 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-29065 and analytical batch 880-29214 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-24 (5')

Lab Sample ID: 890-2499-1
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 19:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 19:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 19:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/08/22 10:35	07/08/22 19:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 19:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/08/22 10:35	07/08/22 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/08/22 10:35*	*07/08/22 19:05*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/08/22 10:35*	*07/08/22 19:05*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		07/06/22 07:36	07/06/22 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*07/06/22 07:36*	*07/06/22 11:41*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*07/06/22 07:36*	*07/06/22 11:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**	**F1**	4.99		mg/Kg			07/08/22 15:37	1

Client Sample ID: BH-25 (5')

Lab Sample ID: 890-2499-2
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 19:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 19:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 19:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/22 10:35	07/08/22 19:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 19:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/22 10:35	07/08/22 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/08/22 10:35*	*07/08/22 19:32*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-25 (5')

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Lab Sample ID: 890-2499-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/08/22 10:35*	*07/08/22 19:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 12:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 12:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*79*		*70 - 130*	*07/06/22 07:36*	*07/06/22 12:46*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/06/22 07:36*	*07/06/22 12:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**333**		5.00		mg/Kg			07/08/22 16:00	1

Client Sample ID: BH-26 (5')

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Lab Sample ID: 890-2499-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/08/22 10:35	07/08/22 19:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/08/22 10:35	07/08/22 19:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/08/22 10:35	07/08/22 19:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/08/22 10:35	07/08/22 19:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/08/22 10:35	07/08/22 19:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/08/22 10:35	07/08/22 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/08/22 10:35*	*07/08/22 19:58*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/08/22 10:35*	*07/08/22 19:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-26 (5')

Lab Sample ID: 890-2499-3
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 13:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 13:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/06/22 07:36*	*07/06/22 13:08*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/06/22 07:36*	*07/06/22 13:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**411**		4.98		mg/Kg			07/08/22 16:08	1

Client Sample ID: BH-27 (5')

Lab Sample ID: 890-2499-4
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 20:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 20:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 20:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/08/22 10:35	07/08/22 20:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 20:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/08/22 10:35	07/08/22 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/08/22 10:35*	*07/08/22 20:24*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/08/22 10:35*	*07/08/22 20:24*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 13:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 13:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/06/22 07:36*	*07/06/22 13:30*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/06/22 07:36*	*07/06/22 13:30*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-27 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Lab Sample ID: 890-2499-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	827		4.95		mg/Kg			07/08/22 16:16	1

Client Sample ID: BH-28 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Lab Sample ID: 890-2499-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/08/22 10:35	07/08/22 20:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/08/22 10:35	07/08/22 20:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/08/22 10:35	07/08/22 20:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/08/22 10:35	07/08/22 20:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/08/22 10:35	07/08/22 20:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/08/22 10:35	07/08/22 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/08/22 10:35*	*07/08/22 20:50*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/08/22 10:35*	*07/08/22 20:50*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 13:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 13:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/06/22 07:36*	*07/06/22 13:51*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/06/22 07:36*	*07/06/22 13:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384		4.97		mg/Kg			07/08/22 16:24	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-29 (5')

Lab Sample ID: 890-2499-6
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/08/22 10:35	07/08/22 21:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/08/22 10:35	07/08/22 21:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/08/22 10:35	07/08/22 21:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/08/22 10:35	07/08/22 21:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/08/22 10:35	07/08/22 21:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/08/22 10:35	07/08/22 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/08/22 10:35*	*07/08/22 21:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/08/22 10:35*	*07/08/22 21:17*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:36	07/06/22 14:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:36	07/06/22 14:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:36	07/06/22 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/06/22 07:36*	*07/06/22 14:13*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/06/22 07:36*	*07/06/22 14:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**987**		5.01		mg/Kg			07/08/22 16:47	1

Client Sample ID: BH-30 (5')

Lab Sample ID: 890-2499-7
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/08/22 10:35	07/08/22 21:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/08/22 10:35	07/08/22 21:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/08/22 10:35	07/08/22 21:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/08/22 10:35	07/08/22 21:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/08/22 10:35	07/08/22 21:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/08/22 10:35	07/08/22 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/08/22 10:35*	*07/08/22 21:43*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-30 (5')

Lab Sample ID: 890-2499-7
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/08/22 10:35*	*07/08/22 21:43*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 14:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 14:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*117*		*70 - 130*	*07/06/22 07:36*	*07/06/22 14:34*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/06/22 07:36*	*07/06/22 14:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**770**		4.98		mg/Kg			07/08/22 16:55	1

Client Sample ID: BH-31 (5')

Lab Sample ID: 890-2499-8
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 22:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 22:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 22:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/22 10:35	07/08/22 22:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 22:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/22 10:35	07/08/22 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/08/22 10:35*	*07/08/22 22:10*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/22 10:35*	*07/08/22 22:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.6**		49.8		mg/Kg			07/07/22 09:01	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-31 (5')

Lab Sample ID: 890-2499-8
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**76.6**		49.8		mg/Kg		07/06/22 07:36	07/06/22 14:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:36	07/06/22 14:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:36	07/06/22 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/06/22 07:36*	*07/06/22 14:56*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/06/22 07:36*	*07/06/22 14:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**766**		5.00		mg/Kg			07/08/22 17:03	1

Client Sample ID: BH-32 (5')

Lab Sample ID: 890-2499-9
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 22:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 22:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 22:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/08/22 14:51	07/09/22 22:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 22:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/08/22 14:51	07/09/22 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/08/22 14:51*	*07/09/22 22:36*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/08/22 14:51*	*07/09/22 22:36*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 15:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 15:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/06/22 07:36*	*07/06/22 15:17*	*1*
o-Terphenyl	*88*		*70 - 130*	*07/06/22 07:36*	*07/06/22 15:17*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-32 (5')

Lab Sample ID: 890-2499-9
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	402		5.04		mg/Kg			07/08/22 17:11	1

Client Sample ID: BH-33 (5')

Lab Sample ID: 890-2499-10
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/22 14:51	07/09/22 22:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/22 14:51	07/09/22 22:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/22 14:51	07/09/22 22:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/22 14:51	07/09/22 22:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/22 14:51	07/09/22 22:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/22 14:51	07/09/22 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/08/22 14:51*	*07/09/22 22:56*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/08/22 14:51*	*07/09/22 22:56*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 15:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 15:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/06/22 07:36*	*07/06/22 15:39*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/06/22 07:36*	*07/06/22 15:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		4.99		mg/Kg			07/08/22 17:19	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-34 (5')

Lab Sample ID: 890-2499-11
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 23:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 23:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 23:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/08/22 14:51	07/09/22 23:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 23:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/08/22 14:51	07/09/22 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/08/22 14:51*	*07/09/22 23:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/08/22 14:51*	*07/09/22 23:17*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 16:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*07/06/22 07:36*	*07/06/22 16:22*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/06/22 07:36*	*07/06/22 16:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**		4.97		mg/Kg			07/08/22 17:27	1

Client Sample ID: BH-35 (5')

Lab Sample ID: 890-2499-12
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/22 14:51	07/09/22 23:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/22 14:51	07/09/22 23:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/22 14:51	07/09/22 23:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/08/22 14:51	07/09/22 23:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/22 14:51	07/09/22 23:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/08/22 14:51	07/09/22 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/08/22 14:51*	*07/09/22 23:38*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2499-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Client Sample ID: BH-35 (5') Lab Sample ID: 890-2499-12

Date Collected: 06/29/22 00:00 **Matrix: Solid**
Date Received: 07/05/22 08:08
Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/08/22 14:51*	*07/09/22 23:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 16:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 16:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*77*		*70 - 130*	*07/06/22 07:36*	*07/06/22 16:44*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/06/22 07:36*	*07/06/22 16:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**356**		4.99		mg/Kg			07/08/22 17:50	1

Client Sample ID: BH-36 (5') Lab Sample ID: 890-2499-13

Date Collected: 06/29/22 00:00 **Matrix: Solid**
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/22 14:51	07/09/22 23:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/22 14:51	07/09/22 23:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/22 14:51	07/09/22 23:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/22 14:51	07/09/22 23:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/22 14:51	07/09/22 23:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/22 14:51	07/09/22 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/08/22 14:51*	*07/09/22 23:58*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/08/22 14:51*	*07/09/22 23:58*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-36 (5')

Lab Sample ID: 890-2499-13
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:36	07/06/22 17:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:36	07/06/22 17:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:36	07/06/22 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/06/22 07:36*	*07/06/22 17:05*	*1*
o-Terphenyl	*80*		*70 - 130*	*07/06/22 07:36*	*07/06/22 17:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**452**		4.97		mg/Kg			07/08/22 17:58	1

Client Sample ID: BH-37 (5')

Lab Sample ID: 890-2499-14
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:20	07/10/22 19:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:20	07/10/22 19:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:20	07/10/22 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/07/22 14:20	07/10/22 19:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:20	07/10/22 19:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/07/22 14:20	07/10/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/07/22 14:20*	*07/10/22 19:51*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/07/22 14:20*	*07/10/22 19:51*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 17:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 17:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*07/06/22 07:36*	*07/06/22 17:27*	*1*
o-Terphenyl	*84*		*70 - 130*	*07/06/22 07:36*	*07/06/22 17:27*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-37 (5')

Lab Sample ID: 890-2499-14
Matrix: Solid

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	444		5.00		mg/Kg			07/08/22 18:22	1

Client Sample ID: BH-38 (5')

Lab Sample ID: 890-2499-15
Matrix: Solid

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 20:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 20:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 20:12	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/07/22 14:20	07/10/22 20:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 20:12	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/07/22 14:20	07/10/22 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/07/22 14:20*	*07/10/22 20:12*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/07/22 14:20*	*07/10/22 20:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 17:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 17:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*07/06/22 07:36*	*07/06/22 17:49*	*1*
o-Terphenyl	*72*		*70 - 130*	*07/06/22 07:36*	*07/06/22 17:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	513		5.05		mg/Kg			07/08/22 18:29	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-39 (5')

Lab Sample ID: 890-2499-16
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/10/22 20:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/10/22 20:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/10/22 20:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/07/22 14:20	07/10/22 20:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/10/22 20:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/07/22 14:20	07/10/22 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/07/22 14:20*	*07/10/22 20:32*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/07/22 14:20*	*07/10/22 20:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 18:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 18:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/06/22 07:36*	*07/06/22 18:10*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/06/22 07:36*	*07/06/22 18:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**675**		4.97		mg/Kg			07/08/22 18:37	1

Client Sample ID: BH-40 (5')

Lab Sample ID: 890-2499-17
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/10/22 20:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/10/22 20:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/10/22 20:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/07/22 14:20	07/10/22 20:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/10/22 20:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/07/22 14:20	07/10/22 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/07/22 14:20*	*07/10/22 20:52*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-40 (5')

Lab Sample ID: 890-2499-17
Matrix: Solid
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/07/22 14:20*	*07/10/22 20:52*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 18:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 18:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*87*		*70 - 130*	*07/06/22 07:36*	*07/06/22 18:32*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/06/22 07:36*	*07/06/22 18:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**624**		5.04		mg/Kg			07/08/22 18:45	1

Client Sample ID: BH-41 (5')

Lab Sample ID: 890-2499-18
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 21:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 21:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 21:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/07/22 14:20	07/10/22 21:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 21:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/07/22 14:20	07/10/22 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/07/22 14:20*	*07/10/22 21:13*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/07/22 14:20*	*07/10/22 21:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-41 (5')

Lab Sample ID: 890-2499-18
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 18:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/06/22 07:36*	*07/06/22 18:53*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/06/22 07:36*	*07/06/22 18:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**443**		5.02		mg/Kg			07/08/22 18:53	1

Client Sample ID: BH-42 (5')

Lab Sample ID: 890-2499-19
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 21:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 21:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 21:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/10/22 21:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 21:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/10/22 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/07/22 14:20*	*07/10/22 21:33*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/07/22 14:20*	*07/10/22 21:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 19:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 19:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*07/06/22 07:36*	*07/06/22 19:15*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/06/22 07:36*	*07/06/22 19:15*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-42 (5')

Lab Sample ID: 890-2499-19
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736		5.00		mg/Kg			07/08/22 19:01	1

Client Sample ID: BH-43 (5')

Lab Sample ID: 890-2499-20
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 21:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 21:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 21:54	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/07/22 14:20	07/10/22 21:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:20	07/10/22 21:54	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/07/22 14:20	07/10/22 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/07/22 14:20*	*07/10/22 21:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/07/22 14:20*	*07/10/22 21:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 19:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 19:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:36	07/06/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*07/06/22 07:36*	*07/06/22 19:37*	*1*
o-Terphenyl	*72*		*70 - 130*	*07/06/22 07:36*	*07/06/22 19:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	820		4.95		mg/Kg			07/08/22 19:09	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-44 (5')

Lab Sample ID: 890-2499-21
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/10/22 22:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/10/22 22:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/10/22 22:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/07/22 14:20	07/10/22 22:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/10/22 22:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/07/22 14:20	07/10/22 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/07/22 14:20*	*07/10/22 22:14*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/07/22 14:20*	*07/10/22 22:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/06/22 21:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/06/22 21:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/06/22 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/06/22 07:42*	*07/06/22 21:24*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/06/22 07:42*	*07/06/22 21:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**666**		5.00		mg/Kg			07/08/22 13:29	1

Client Sample ID: BH-45 (5')

Lab Sample ID: 890-2499-22
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 22:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 22:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 22:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/07/22 14:20	07/10/22 22:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 22:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/07/22 14:20	07/10/22 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/07/22 14:20*	*07/10/22 22:35*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-45 (5')

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Lab Sample ID: 890-2499-22
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/07/22 14:20*	*07/10/22 22:35*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/06/22 22:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/06/22 22:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/06/22 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/06/22 07:42*	*07/06/22 22:29*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/06/22 07:42*	*07/06/22 22:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**647**		5.01		mg/Kg			07/08/22 13:57	1

Client Sample ID: BH-46 (5')

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Lab Sample ID: 890-2499-23
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 22:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 22:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 22:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/07/22 14:20	07/10/22 22:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 22:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/07/22 14:20	07/10/22 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/07/22 14:20*	*07/10/22 22:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/07/22 14:20*	*07/10/22 22:55*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.5**		50.0		mg/Kg			07/07/22 09:01	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-46 (5')

Lab Sample ID: 890-2499-23
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**76.5**		50.0		mg/Kg		07/06/22 07:42	07/06/22 22:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/06/22 22:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/06/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/06/22 07:42*	*07/06/22 22:51*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/06/22 07:42*	*07/06/22 22:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**619**		4.98		mg/Kg			07/08/22 14:06	1

Client Sample ID: BH-47 (5')

Lab Sample ID: 890-2499-24
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 00:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 00:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 00:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/11/22 00:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 00:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/11/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/07/22 14:20*	*07/11/22 00:46*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/07/22 14:20*	*07/11/22 00:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/06/22 23:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/06/22 23:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/06/22 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/06/22 07:42*	*07/06/22 23:12*	*1*
o-Terphenyl	*84*		*70 - 130*	*07/06/22 07:42*	*07/06/22 23:12*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-47 (5')

Lab Sample ID: 890-2499-24
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	766		4.95		mg/Kg			07/08/22 14:15	1

Client Sample ID: BH-48 (5')

Lab Sample ID: 890-2499-25
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/11/22 01:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/11/22 01:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/11/22 01:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/07/22 14:20	07/11/22 01:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:20	07/11/22 01:06	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/07/22 14:20	07/11/22 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/07/22 14:20*	*07/11/22 01:06*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/07/22 14:20*	*07/11/22 01:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/06/22 23:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/06/22 23:34	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/06/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/06/22 07:42*	*07/06/22 23:34*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/06/22 07:42*	*07/06/22 23:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	429		5.04		mg/Kg			07/08/22 14:24	1

Client Sample ID: SW-16

Lab Sample ID: 890-2499-26
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 01:26	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-16

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-26
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 01:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 01:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/07/22 14:20	07/11/22 01:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 01:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/07/22 14:20	07/11/22 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/07/22 14:20*	*07/11/22 01:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/07/22 14:20*	*07/11/22 01:26*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/06/22 23:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/06/22 23:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/06/22 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/06/22 07:42*	*07/06/22 23:55*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/06/22 07:42*	*07/06/22 23:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.4**		5.00		mg/Kg			07/08/22 17:20	1

Client Sample ID: SW-17

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-27
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:20	07/11/22 01:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:20	07/11/22 01:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:20	07/11/22 01:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/07/22 14:20	07/11/22 01:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:20	07/11/22 01:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/07/22 14:20	07/11/22 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/07/22 14:20*	*07/11/22 01:47*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/07/22 14:20*	*07/11/22 01:47*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-17

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-27
Matrix: Solid

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 00:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 00:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*07/06/22 07:42*	*07/07/22 00:16*	*1*
o-Terphenyl	*130*		*70 - 130*	*07/06/22 07:42*	*07/07/22 00:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.5**		4.98		mg/Kg			07/08/22 17:29	1

Client Sample ID: SW-18

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-28
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/07/22 14:20	07/11/22 02:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/07/22 14:20	07/11/22 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/07/22 14:20*	*07/11/22 02:07*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/07/22 14:20*	*07/11/22 02:07*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 00:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 00:37	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-18

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-28
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/06/22 07:42*	*07/07/22 00:37*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/06/22 07:42*	*07/07/22 00:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.8**		5.05		mg/Kg			07/08/22 17:38	1

Client Sample ID: SW-19

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-29
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/07/22 14:20	07/11/22 02:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/07/22 14:20	07/11/22 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/07/22 14:20*	*07/11/22 02:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/07/22 14:20*	*07/11/22 02:28*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**63.3**		50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**63.3**		50.0		mg/Kg		07/06/22 07:42	07/07/22 00:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 00:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/06/22 07:42*	*07/07/22 00:58*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/06/22 07:42*	*07/07/22 00:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.4**		5.00		mg/Kg			07/08/22 17:47	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-20

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/11/22 02:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 02:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/11/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/07/22 14:20*	*07/11/22 02:48*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/07/22 14:20*	*07/11/22 02:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 01:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 01:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*07/06/22 07:42*	*07/07/22 01:19*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*07/06/22 07:42*	*07/07/22 01:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.6**		4.97		mg/Kg			07/08/22 17:56	1

Client Sample ID: SW-21

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 03:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 03:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 03:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/07/22 14:20	07/11/22 03:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 03:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/07/22 14:20	07/11/22 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/07/22 14:20*	*07/11/22 03:08*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/07/22 14:20*	*07/11/22 03:08*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-21

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-31
Matrix: Solid

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 02:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 02:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/06/22 07:42*	*07/07/22 02:01*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/06/22 07:42*	*07/07/22 02:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.9**		4.95		mg/Kg			07/08/22 18:06	1

Client Sample ID: SW-22

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-32
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 03:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 03:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 03:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/11/22 03:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/11/22 03:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/11/22 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/07/22 14:20*	*07/11/22 03:29*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/07/22 14:20*	*07/11/22 03:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 02:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 02:21	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-22

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-32

Matrix: Solid

Method: 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)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/06/22 07:42*	*07/07/22 02:21*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/06/22 07:42*	*07/07/22 02:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.0**		5.00		mg/Kg			07/08/22 19:01	1

Client Sample ID: SW-23

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-33

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 03:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 03:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 03:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/07/22 14:20	07/11/22 03:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:20	07/11/22 03:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/07/22 14:20	07/11/22 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/07/22 14:20*	*07/11/22 03:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/07/22 14:20*	*07/11/22 03:49*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 02:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 02:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/06/22 07:42*	*07/07/22 02:43*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/06/22 07:42*	*07/07/22 02:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.8**		5.04		mg/Kg			07/08/22 19:10	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-24

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-34

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/10/22 17:03	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		07/07/22 14:34	07/10/22 17:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/10/22 17:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/07/22 14:34	07/10/22 17:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/10/22 17:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/07/22 14:34	07/10/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/07/22 14:34*	*07/10/22 17:03*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/07/22 14:34*	*07/10/22 17:03*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 03:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 03:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/06/22 07:42*	*07/07/22 03:04*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/06/22 07:42*	*07/07/22 03:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			07/08/22 19:38	1

Client Sample ID: SW-25

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-35

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 17:29	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/10/22 17:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 17:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/07/22 14:34	07/10/22 17:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 17:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/07/22 14:34	07/10/22 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/07/22 14:34*	*07/10/22 17:29*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/07/22 14:34*	*07/10/22 17:29*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2499-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

Client Sample ID: SW-25 Lab Sample ID: 890-2499-35
Date Collected: 06/29/22 00:00 **Matrix: Solid**
Date Received: 07/05/22 08:08

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 03:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 03:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*07/06/22 07:42*	*07/07/22 03:24*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*07/06/22 07:42*	*07/07/22 03:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.8**		5.00		mg/Kg			07/08/22 19:47	1

Client Sample ID: SW-26 Lab Sample ID: 890-2499-36
Date Collected: 06/29/22 00:00 **Matrix: Solid**
Date Received: 07/05/22 08:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 17:55	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/10/22 17:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 17:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:34	07/10/22 17:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 17:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:34	07/10/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/07/22 14:34*	*07/10/22 17:55*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/07/22 14:34*	*07/10/22 17:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 03:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 03:46	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-26

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-36
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/06/22 07:42*	*07/07/22 03:46*	*1*
o-Terphenyl	*124*		*70 - 130*	*07/06/22 07:42*	*07/07/22 03:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			07/08/22 19:56	1

Client Sample ID: SW-27

Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-37
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/10/22 18:22	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		07/07/22 14:34	07/10/22 18:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/10/22 18:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/07/22 14:34	07/10/22 18:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/10/22 18:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/07/22 14:34	07/10/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/07/22 14:34*	*07/10/22 18:22*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/07/22 14:34*	*07/10/22 18:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 04:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 04:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/07/22 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*07/06/22 07:42*	*07/07/22 04:07*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/06/22 07:42*	*07/07/22 04:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.35**		5.00		mg/Kg			07/08/22 20:05	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-28

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-38

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 18:48	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/10/22 18:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 18:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/07/22 14:34	07/10/22 18:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 18:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/07/22 14:34	07/10/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/07/22 14:34*	*07/10/22 18:48*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/07/22 14:34*	*07/10/22 18:48*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 04:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 04:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/06/22 07:42*	*07/07/22 04:27*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/06/22 07:42*	*07/07/22 04:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			07/08/22 20:15	1

Client Sample ID: SW-29

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-39

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/10/22 19:14	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		07/07/22 14:34	07/10/22 19:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/10/22 19:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/07/22 14:34	07/10/22 19:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/10/22 19:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/07/22 14:34	07/10/22 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/07/22 14:34*	*07/10/22 19:14*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/07/22 14:34*	*07/10/22 19:14*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-29

Lab Sample ID: 890-2499-39
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 04:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 04:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:42	07/07/22 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/06/22 07:42*	*07/07/22 04:49*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/06/22 07:42*	*07/07/22 04:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.5**		4.95		mg/Kg			07/08/22 20:24	1

Client Sample ID: SW-30

Lab Sample ID: 890-2499-40
Matrix: Solid
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 19:41	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/10/22 19:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 19:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/07/22 14:34	07/10/22 19:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 19:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/07/22 14:34	07/10/22 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/07/22 14:34*	*07/10/22 19:41*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/07/22 14:34*	*07/10/22 19:41*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 05:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 05:09	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-30

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-40

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:42	07/07/22 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/06/22 07:42*	*07/07/22 05:09*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/06/22 07:42*	*07/07/22 05:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/08/22 20:33	1

Client Sample ID: SW-31

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-41

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 20:07	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/10/22 20:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 20:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:34	07/10/22 20:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 20:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:34	07/10/22 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/07/22 14:34*	*07/10/22 20:07*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/07/22 14:34*	*07/10/22 20:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/06/22 21:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/06/22 21:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/06/22 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/06/22 07:48*	*07/06/22 21:57*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/06/22 07:48*	*07/06/22 21:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.8**		5.04		mg/Kg			07/08/22 04:43	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-32

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 20:34	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/10/22 20:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 20:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/07/22 14:34	07/10/22 20:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 20:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/07/22 14:34	07/10/22 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/07/22 14:34*	*07/10/22 20:34*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/07/22 14:34*	*07/10/22 20:34*	*1*

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/06/22 23:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/06/22 23:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/06/22 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/06/22 07:48*	*07/06/22 23:02*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/06/22 07:48*	*07/06/22 23:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.12**		4.98		mg/Kg			07/08/22 04:52	1

Client Sample ID: SW-33

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-43

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/10/22 21:00	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		07/07/22 14:34	07/10/22 21:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/10/22 21:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/07/22 14:34	07/10/22 21:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/10/22 21:00	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/07/22 14:34	07/10/22 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/07/22 14:34*	*07/10/22 21:00*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/07/22 14:34*	*07/10/22 21:00*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-33
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-43
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/06/22 23:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/06/22 23:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/06/22 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/06/22 07:48*	*07/06/22 23:23*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/06/22 07:48*	*07/06/22 23:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.5**		5.00		mg/Kg			07/08/22 05:02	1

Client Sample ID: SW-34
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-44
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 22:47	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/10/22 22:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 22:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/07/22 14:34	07/10/22 22:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/10/22 22:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/07/22 14:34	07/10/22 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/07/22 14:34*	*07/10/22 22:47*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/07/22 14:34*	*07/10/22 22:47*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/06/22 23:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/06/22 23:44	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-34

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-44

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/06/22 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/06/22 07:48*	*07/06/22 23:44*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/06/22 07:48*	*07/06/22 23:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.1**		4.99		mg/Kg			07/08/22 05:30	1

Client Sample ID: SW-35

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-45

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/10/22 23:14	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		07/07/22 14:34	07/10/22 23:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/10/22 23:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/07/22 14:34	07/10/22 23:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/10/22 23:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/07/22 14:34	07/10/22 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/07/22 14:34*	*07/10/22 23:14*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/07/22 14:34*	*07/10/22 23:14*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/07/22 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/07/22 00:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/07/22 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/06/22 07:48*	*07/07/22 00:05*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/06/22 07:48*	*07/07/22 00:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.5**		4.98		mg/Kg			07/08/22 05:39	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-36

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-46

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:34	07/10/22 23:40	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		07/07/22 14:34	07/10/22 23:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:34	07/10/22 23:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/07/22 14:34	07/10/22 23:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/07/22 14:34	07/10/22 23:40	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/07/22 14:34	07/10/22 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/07/22 14:34*	*07/10/22 23:40*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/07/22 14:34*	*07/10/22 23:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/07/22 00:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/07/22 00:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/07/22 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/06/22 07:48*	*07/07/22 00:25*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/06/22 07:48*	*07/07/22 00:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		4.96		mg/Kg			07/08/22 06:06	1

Client Sample ID: SW-37

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-47

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/11/22 00:06	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		07/07/22 14:34	07/11/22 00:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/11/22 00:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/07/22 14:34	07/11/22 00:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/11/22 00:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/07/22 14:34	07/11/22 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/07/22 14:34*	*07/11/22 00:06*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/07/22 14:34*	*07/11/22 00:06*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-37
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-47
Matrix: Solid

Method: 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			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 00:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 00:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/06/22 07:48*	*07/07/22 00:45*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/06/22 07:48*	*07/07/22 00:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			07/08/22 06:16	1

Client Sample ID: SW-38
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-48
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/11/22 00:31	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		07/07/22 14:34	07/11/22 00:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/11/22 00:31	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/07/22 14:34	07/11/22 00:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/07/22 14:34	07/11/22 00:31	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/07/22 14:34	07/11/22 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/07/22 14:34*	*07/11/22 00:31*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/07/22 14:34*	*07/11/22 00:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/07/22 01:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/07/22 01:05	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-38

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-48

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/06/22 07:48	07/07/22 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/06/22 07:48*	*07/07/22 01:05*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/06/22 07:48*	*07/07/22 01:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.84**		5.01		mg/Kg			07/08/22 06:25	1

Client Sample ID: SW-39

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-49

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/11/22 00:57	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		07/07/22 14:34	07/11/22 00:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/11/22 00:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/07/22 14:34	07/11/22 00:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/07/22 14:34	07/11/22 00:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/07/22 14:34	07/11/22 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/07/22 14:34*	*07/11/22 00:57*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/07/22 14:34*	*07/11/22 00:57*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**83.0**		49.9		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**83.0**		49.9		mg/Kg		07/06/22 07:48	07/07/22 01:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 01:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/06/22 07:48*	*07/07/22 01:26*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/06/22 07:48*	*07/07/22 01:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.49**		4.95		mg/Kg			07/08/22 06:34	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-40

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-50

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/11/22 01:23	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		07/07/22 14:34	07/11/22 01:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/11/22 01:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/07/22 14:34	07/11/22 01:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/07/22 14:34	07/11/22 01:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/07/22 14:34	07/11/22 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/07/22 14:34*	*07/11/22 01:23*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/07/22 14:34*	*07/11/22 01:23*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/07/22 01:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/07/22 01:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/07/22 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/06/22 07:48*	*07/07/22 01:46*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/06/22 07:48*	*07/07/22 01:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			07/08/22 06:43	1

Client Sample ID: SW-41

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-51

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/11/22 01:49	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/11/22 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/11/22 01:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:34	07/11/22 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/11/22 01:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:34	07/11/22 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/07/22 14:34*	*07/11/22 01:49*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*07/07/22 14:34*	*07/11/22 01:49*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-41

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-51
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/11/22 07:56	1

Method: 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			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 02:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 02:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/06/22 07:48*	*07/07/22 02:27*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/06/22 07:48*	*07/07/22 02:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.25**		4.95		mg/Kg			07/08/22 06:53	1

Client Sample ID: SW-42

Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-52
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/11/22 02:15	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/07/22 14:34	07/11/22 02:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/11/22 02:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/07/22 14:34	07/11/22 02:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:34	07/11/22 02:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/07/22 14:34	07/11/22 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/07/22 14:34*	*07/11/22 02:15*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/07/22 14:34*	*07/11/22 02:15*	*1*

Method: 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			07/11/22 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.3**		49.9		mg/Kg			07/07/22 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**74.3**		49.9		mg/Kg		07/06/22 07:48	07/07/22 02:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 02:47	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-42
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-52
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/06/22 07:48	07/07/22 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/06/22 07:48*	*07/07/22 02:47*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/06/22 07:48*	*07/07/22 02:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.9**		4.99		mg/Kg			07/08/22 07:02	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad 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)
880-16711-A-1-A MS	Matrix Spike	110	103
880-16711-A-1-B MSD	Matrix Spike Duplicate	117	99
890-2499-1	BH-24 (5')	113	89
890-2499-2	BH-25 (5')	121	96
890-2499-3	BH-26 (5')	116	89
890-2499-4	BH-27 (5')	117	94
890-2499-5	BH-28 (5')	108	85
890-2499-6	BH-29 (5')	107	95
890-2499-7	BH-30 (5')	111	93
890-2499-8	BH-31 (5')	111	91
890-2499-9	BH-32 (5')	99	85
890-2499-10	BH-33 (5')	102	86
890-2499-11	BH-34 (5')	111	95
890-2499-12	BH-35 (5')	111	94
890-2499-13	BH-36 (5')	104	82
890-2499-14	BH-37 (5')	112	101
890-2499-14 MS	BH-37 (5')	109	100
890-2499-14 MSD	BH-37 (5')	112	101
890-2499-15	BH-38 (5')	113	97
890-2499-16	BH-39 (5')	110	101
890-2499-17	BH-40 (5')	114	101
890-2499-18	BH-41 (5')	113	101
890-2499-19	BH-42 (5')	118	99
890-2499-20	BH-43 (5')	116	99
890-2499-21	BH-44 (5')	112	101
890-2499-22	BH-45 (5')	112	97
890-2499-23	BH-46 (5')	110	97
890-2499-24	BH-47 (5')	118	95
890-2499-25	BH-48 (5')	108	98
890-2499-26	SW-16	105	98
890-2499-27	SW-17	109	98
890-2499-28	SW-18	105	96
890-2499-29	SW-19	105	97
890-2499-30	SW-20	110	99
890-2499-31	SW-21	107	97
890-2499-32	SW-22	109	91
890-2499-33	SW-23	108	97
890-2499-34	SW-24	98	87
890-2499-34 MS	SW-24	104	97
890-2499-34 MSD	SW-24	105	98
890-2499-35	SW-25	110	85
890-2499-36	SW-26	113	93
890-2499-37	SW-27	115	93
890-2499-38	SW-28	113	96
890-2499-39	SW-29	117	89
890-2499-40	SW-30	116	85
890-2499-41	SW-31	117	86
890-2499-42	SW-32	114	95
890-2499-43	SW-33	116	85

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2499-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2499-44	SW-34	108	89
890-2499-45	SW-35	110	90
890-2499-46	SW-36	111	86
890-2499-47	SW-37	115	87
890-2499-48	SW-38	119	82
890-2499-49	SW-39	118	92
890-2499-50	SW-40	114	93
890-2499-51	SW-41	108	81
890-2499-52	SW-42	113	84
890-2511-A-32-A MS	Matrix Spike	106	96
890-2511-A-32-B MSD	Matrix Spike Duplicate	111	104
LCS 880-29212/1-A	Lab Control Sample	110	100
LCS 880-29217/1-A	Lab Control Sample	97	101
LCS 880-29280/1-A	Lab Control Sample	104	96
LCS 880-29325/1-A	Lab Control Sample	105	102
LCSD 880-29212/2-A	Lab Control Sample Dup	110	103
LCSD 880-29217/2-A	Lab Control Sample Dup	101	99
LCSD 880-29280/2-A	Lab Control Sample Dup	107	90
LCSD 880-29325/2-A	Lab Control Sample Dup	104	103
MB 880-29212/5-A	Method Blank	104	99
MB 880-29217/5-A	Method Blank	81	82
MB 880-29280/5-A	Method Blank	79	89
MB 880-29325/5-A	Method Blank	99	90

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2499-1	BH-24 (5')	67 S1-	67 S1-
890-2499-1 MS	BH-24 (5')	66 S1-	59 S1-
890-2499-1 MSD	BH-24 (5')	67 S1-	60 S1-
890-2499-2	BH-25 (5')	79	82
890-2499-3	BH-26 (5')	83	87
890-2499-4	BH-27 (5')	85	90
890-2499-5	BH-28 (5')	83	89
890-2499-6	BH-29 (5')	89	97
890-2499-7	BH-30 (5')	117	121
890-2499-8	BH-31 (5')	92	97
890-2499-9	BH-32 (5')	84	88
890-2499-10	BH-33 (5')	100	103
890-2499-11	BH-34 (5')	80	85
890-2499-12	BH-35 (5')	77	82
890-2499-13	BH-36 (5')	77	80
890-2499-14	BH-37 (5')	79	84
890-2499-15	BH-38 (5')	72	72

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2499-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-2499-16	BH-39 (5')	89	90								
890-2499-17	BH-40 (5')	87	92								
890-2499-18	BH-41 (5')	96	94								
890-2499-19	BH-42 (5')	79	81								
890-2499-20	BH-43 (5')	70	72								
890-2499-21	BH-44 (5')	77	81								
890-2499-21 MS	BH-44 (5')	93	92								
890-2499-21 MSD	BH-44 (5')	107	100								
890-2499-22	BH-45 (5')	111	110								
890-2499-23	BH-46 (5')	94	98								
890-2499-24	BH-47 (5')	83	84								
890-2499-25	BH-48 (5')	84	86								
890-2499-26	SW-16	105	116								
890-2499-27	SW-17	124	130								
890-2499-28	SW-18	111	123								
890-2499-29	SW-19	108	119								
890-2499-30	SW-20	124	131 S1+								
890-2499-31	SW-21	105	115								
890-2499-32	SW-22	109	119								
890-2499-33	SW-23	107	121								
890-2499-34	SW-24	111	125								
890-2499-35	SW-25	131 S1+	143 S1+								
890-2499-36	SW-26	110	124								
890-2499-37	SW-27	114	126								
890-2499-38	SW-28	110	123								
890-2499-39	SW-29	109	121								
890-2499-40	SW-30	108	122								
890-2499-41	SW-31	95	93								
890-2499-41 MS	SW-31	106	91								
890-2499-41 MSD	SW-31	114	105								
890-2499-42	SW-32	88	89								
890-2499-43	SW-33	89	89								
890-2499-44	SW-34	90	93								
890-2499-45	SW-35	92	92								
890-2499-46	SW-36	88	90								
890-2499-47	SW-37	93	93								
890-2499-48	SW-38	90	94								
890-2499-49	SW-39	103	109								
890-2499-50	SW-40	90	92								
890-2499-51	SW-41	88	90								
890-2499-52	SW-42	98	106								
LCS 880-29093/2-A	Lab Control Sample	86	98								
LCS 880-29094/2-A	Lab Control Sample	92	104								
LCS 880-29095/2-A	Lab Control Sample	99	94								
LCSD 880-29093/3-A	Lab Control Sample Dup	86	98								
LCSD 880-29094/3-A	Lab Control Sample Dup	106	116								
LCSD 880-29095/3-A	Lab Control Sample Dup	114	110								
MB 880-29093/1-A	Method Blank	105	125								
MB 880-29094/1-A	Method Blank	108	128								
MB 880-29095/1-A	Method Blank	121	135 S1+								

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29212/5-A
Matrix: Solid
Analysis Batch: 29365

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 19:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/10/22 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 14:20	07/10/22 19:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 14:20	07/10/22 19:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/07/22 14:20*	*07/10/22 19:22*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/07/22 14:20*	*07/10/22 19:22*	*1*

Lab Sample ID: LCS 880-29212/1-A
Matrix: Solid
Analysis Batch: 29365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1001		mg/Kg		100	70 - 130
Toluene	0.100	0.1121		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.09848		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-29212/2-A
Matrix: Solid
Analysis Batch: 29365

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29212

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1143		mg/Kg		114	70 - 130	13	35
Toluene	0.100	0.1150		mg/Kg		115	70 - 130	3	35
Ethylbenzene	0.100	0.09936		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2015		mg/Kg		101	70 - 130	0	35
o-Xylene	0.100	0.1152		mg/Kg		115	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-2499-14 MS
Matrix: Solid
Analysis Batch: 29365

Client Sample ID: BH-37 (5')
Prep Type: Total/NA
Prep Batch: 29212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.09395		mg/Kg		93	70 - 130
Toluene	<0.00199	U	0.101	0.09977		mg/Kg		99	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: 890-2499-14 MS
Matrix: Solid
Analysis Batch: 29365

Client Sample ID: BH-37 (5')
Prep Type: Total/NA
Prep Batch: 29212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.08393		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1709		mg/Kg		85	70 - 130
o-Xylene	<0.00199	U	0.101	0.09674		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2499-14 MSD
Matrix: Solid
Analysis Batch: 29365

Client Sample ID: BH-37 (5')
Prep Type: Total/NA
Prep Batch: 29212

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1000		mg/Kg		99	70 - 130	6	35
Toluene	<0.00199	U	0.101	0.1065		mg/Kg		106	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.101	0.09064		mg/Kg		90	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1837		mg/Kg		91	70 - 130	7	35
o-Xylene	<0.00199	U	0.101	0.1048		mg/Kg		104	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-29217/5-A
Matrix: Solid
Analysis Batch: 29367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.000400		mg/Kg		07/07/22 14:34	07/10/22 16:33	1
Toluene	<0.000400	U	0.000400		mg/Kg		07/07/22 14:34	07/10/22 16:33	1
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		07/07/22 14:34	07/10/22 16:33	1
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		07/07/22 14:34	07/10/22 16:33	1
o-Xylene	<0.000400	U	0.000400		mg/Kg		07/07/22 14:34	07/10/22 16:33	1
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		07/07/22 14:34	07/10/22 16:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*07/07/22 14:34*	*07/10/22 16:33*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/07/22 14:34*	*07/10/22 16:33*	*1*

Lab Sample ID: LCS 880-29217/1-A
Matrix: Solid
Analysis Batch: 29367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07004		mg/Kg		70	70 - 130
Toluene	0.100	0.06665	*-	mg/Kg		67	70 - 130
Ethylbenzene	0.100	0.07003		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	0.200	0.1443		mg/Kg		72	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-29217/1-A
Matrix: Solid
Analysis Batch: 29367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29217

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.07577		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-29217/2-A
Matrix: Solid
Analysis Batch: 29367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07146		mg/Kg		71	70 - 130	2	35
Toluene			0.100	0.07306		mg/Kg		73	70 - 130	9	35
Ethylbenzene			0.100	0.07366		mg/Kg		74	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1532		mg/Kg		77	70 - 130	6	35
o-Xylene			0.100	0.08086		mg/Kg		81	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2499-34 MS
Matrix: Solid
Analysis Batch: 29367

Client Sample ID: SW-24
Prep Type: Total/NA
Prep Batch: 29217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.08492		mg/Kg		84	70 - 130		
Toluene	<0.00199	U *-	0.101	0.08003		mg/Kg		79	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.07947		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1620		mg/Kg		80	70 - 130		
o-Xylene	<0.00199	U	0.101	0.08261		mg/Kg		82	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-2499-34 MSD
Matrix: Solid
Analysis Batch: 29367

Client Sample ID: SW-24
Prep Type: Total/NA
Prep Batch: 29217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.08132		mg/Kg		81	70 - 130	4	35
Toluene	<0.00199	U *-	0.101	0.08454		mg/Kg		84	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.08584		mg/Kg		85	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1750		mg/Kg		87	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.09102		mg/Kg		90	70 - 130	10	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: 890-2499-34 MSD
Matrix: Solid
Analysis Batch: 29367

Client Sample ID: SW-24
Prep Type: Total/NA
Prep Batch: 29217

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-29280/5-A
Matrix: Solid
Analysis Batch: 29261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 11:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 11:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 11:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/22 10:35	07/08/22 11:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 10:35	07/08/22 11:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/22 10:35	07/08/22 11:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	07/08/22 10:35	07/08/22 11:59	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/08/22 10:35	07/08/22 11:59	1

Lab Sample ID: LCS 880-29280/1-A
Matrix: Solid
Analysis Batch: 29261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07977		mg/Kg		80	70 - 130
Toluene	0.100	0.07952		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.07612		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	0.200	0.1554		mg/Kg		78	70 - 130
o-Xylene	0.100	0.08732		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-29280/2-A
Matrix: Solid
Analysis Batch: 29261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07993		mg/Kg		80	70 - 130	0	35
Toluene	0.100	0.08333		mg/Kg		83	70 - 130	5	35
Ethylbenzene	0.100	0.08287		mg/Kg		83	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1686		mg/Kg		84	70 - 130	8	35
o-Xylene	0.100	0.09311		mg/Kg		93	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: LCSD 880-29280/2-A
Matrix: Solid
Analysis Batch: 29261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29280

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

Lab Sample ID: 890-2511-A-32-A MS
Matrix: Solid
Analysis Batch: 29261

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0996	0.06174	F1	mg/Kg		62	70 - 130
Toluene	<0.00201	U F1	0.0996	0.05684	F1	mg/Kg		57	70 - 130
Ethylbenzene	<0.00201	U F1	0.0996	0.05617	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.199	0.01153	F1	mg/Kg		6	70 - 130
o-Xylene	<0.00201	U F1	0.0996	0.06694	F1	mg/Kg		67	70 - 130

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

Lab Sample ID: 890-2511-A-32-B MSD
Matrix: Solid
Analysis Batch: 29261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.101	0.05619	F1	mg/Kg		56	70 - 130	9	35
Toluene	<0.00201	U F1	0.101	0.05014	F1	mg/Kg		50	70 - 130	13	35
Ethylbenzene	<0.00201	U F1	0.101	0.05197	F1	mg/Kg		52	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.201	0.1017	F1 F2	mg/Kg		51	70 - 130	159	35
o-Xylene	<0.00201	U F1	0.101	0.05861	F1	mg/Kg		58	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-29325/5-A
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29325

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/22 14:51	07/09/22 16:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/08/22 14:51	07/09/22 16:11	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/08/22 14:51	07/09/22 16:11	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-29325/1-A
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29325

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1065		mg/Kg		107	70 - 130		
Toluene			0.100	0.1030		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1059		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2181		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1087		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-29325/2-A
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29325

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1075		mg/Kg		108	70 - 130	1	35
Toluene			0.100	0.1027		mg/Kg		103	70 - 130	0	35
Ethylbenzene			0.100	0.1066		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2198		mg/Kg		110	70 - 130	1	35
o-Xylene			0.100	0.1093		mg/Kg		109	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-16711-A-1-A MS
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.09215		mg/Kg		92	70 - 130		
Toluene	0.00279		0.0998	0.08306		mg/Kg		80	70 - 130		
Ethylbenzene	<0.00199	U	0.0998	0.07765		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene	0.00464		0.200	0.1581		mg/Kg		77	70 - 130		
o-Xylene	0.00329		0.0998	0.07796		mg/Kg		75	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-16711-A-1-B MSD
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09015		mg/Kg		90	70 - 130	2	35
Toluene	0.00279		0.100	0.09061		mg/Kg		88	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.100	0.08857		mg/Kg		86	70 - 130	13	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: 880-16711-A-1-B MSD
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.00464		0.200	0.1811		mg/Kg		88	70 - 130	14	35
o-Xylene	0.00329		0.100	0.08641		mg/Kg		83	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-29093/1-A
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 10:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 10:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:36	07/06/22 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/06/22 07:36*	*07/06/22 10:36*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/06/22 07:36*	*07/06/22 10:36*	*1*

Lab Sample ID: LCS 880-29093/2-A
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29093

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1070		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	910.4		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Lab Sample ID: LCSD 880-29093/3-A
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29093

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1115		mg/Kg		111	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	926.7		mg/Kg		93	70 - 130	2	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: LCSD 880-29093/3-A
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29093

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Lab Sample ID: 890-2499-1 MS
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: BH-24 (5')
Prep Type: Total/NA
Prep Batch: 29093

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	998	1011		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	602.2	F1	mg/Kg		60	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*66*	*S1-*	*70 - 130*
o-Terphenyl	*59*	*S1-*	*70 - 130*

Lab Sample ID: 890-2499-1 MSD
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: BH-24 (5')
Prep Type: Total/NA
Prep Batch: 29093

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	999	1008		mg/Kg		98	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	623.4	F1	mg/Kg		62	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*67*	*S1-*	*70 - 130*
o-Terphenyl	*60*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-29094/1-A
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/06/22 20:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/06/22 20:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:42	07/06/22 20:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/06/22 07:42*	*07/06/22 20:19*	*1*
o-Terphenyl	*128*		*70 - 130*	*07/06/22 07:42*	*07/06/22 20:19*	*1*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: LCS 880-29094/2-A
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1145		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	954.6		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-29094/3-A
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29094

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1141		mg/Kg		114	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1073		mg/Kg		107	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*116*		*70 - 130*

Lab Sample ID: 890-2499-21 MS
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: BH-44 (5')
Prep Type: Total/NA
Prep Batch: 29094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1263		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	885.0		mg/Kg		89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-2499-21 MSD
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: BH-44 (5')
Prep Type: Total/NA
Prep Batch: 29094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1329		mg/Kg		129	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	987.0		mg/Kg		99	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: 890-2499-21 MSD
Matrix: Solid
Analysis Batch: 29117

Client Sample ID: BH-44 (5')
Prep Type: Total/NA
Prep Batch: 29094

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

Lab Sample ID: MB 880-29095/1-A
Matrix: Solid
Analysis Batch: 29112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/06/22 20:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/06/22 20:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/06/22 07:48	07/06/22 20:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	07/06/22 07:48	07/06/22 20:53	1
o-Terphenyl	135	S1+	70 - 130	07/06/22 07:48	07/06/22 20:53	1

Lab Sample ID: LCS 880-29095/2-A
Matrix: Solid
Analysis Batch: 29112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29095

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	756.1		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	918.2		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-29095/3-A
Matrix: Solid
Analysis Batch: 29112

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29095

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	891.9		mg/Kg		89	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1028		mg/Kg		103	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	110		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Lab Sample ID: 890-2499-41 MS
Matrix: Solid
Analysis Batch: 29112

Client Sample ID: SW-31
Prep Type: Total/NA
Prep Batch: 29095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	939.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	882.1		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 890-2499-41 MSD
Matrix: Solid
Analysis Batch: 29112

Client Sample ID: SW-31
Prep Type: Total/NA
Prep Batch: 29095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1096		mg/Kg		110	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1005		mg/Kg		101	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29067/1-A
Matrix: Solid
Analysis Batch: 29211

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/08/22 02:25	1

Lab Sample ID: LCS 880-29067/2-A
Matrix: Solid
Analysis Batch: 29211

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.3		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-29067/3-A
Matrix: Solid
Analysis Batch: 29211

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	241.8		mg/Kg		97	90 - 110	1	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2499-43 MS
Matrix: Solid
Analysis Batch: 29211

Client Sample ID: SW-33
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.5		250	269.4		mg/Kg		103	90 - 110

Lab Sample ID: 890-2499-43 MSD
Matrix: Solid
Analysis Batch: 29211

Client Sample ID: SW-33
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.5		250	269.1		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-29065/1-A
Matrix: Solid
Analysis Batch: 29214

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/08/22 15:13	1

Lab Sample ID: LCS 880-29065/2-A
Matrix: Solid
Analysis Batch: 29214

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.2		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-29065/3-A
Matrix: Solid
Analysis Batch: 29214

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.1		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-2499-1 MS
Matrix: Solid
Analysis Batch: 29214

Client Sample ID: BH-24 (5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	300	F1	250	572.1		mg/Kg		109	90 - 110

Lab Sample ID: 890-2499-1 MSD
Matrix: Solid
Analysis Batch: 29214

Client Sample ID: BH-24 (5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	300	F1	250	576.2	F1	mg/Kg		111	90 - 110	1	20

Lab Sample ID: 890-2499-11 MS
Matrix: Solid
Analysis Batch: 29214

Client Sample ID: BH-34 (5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1030		249	1265	4	mg/Kg		95	90 - 110

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2499-11 MSD — **Client Sample ID: BH-34 (5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1030		249	1265	4	mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-29066/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/08/22 13:02	1

Lab Sample ID: LCS 880-29066/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.3		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-29066/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.8		mg/Kg		99	90 - 110	5	20

Lab Sample ID: 890-2499-21 MS — **Client Sample ID: BH-44 (5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	666		250	910.5		mg/Kg		98	90 - 110

Lab Sample ID: 890-2499-21 MSD — **Client Sample ID: BH-44 (5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29215

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	666		250	937.2		mg/Kg		109	90 - 110	3	20

Lab Sample ID: 890-2499-31 MS — **Client Sample ID: SW-21**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	38.9		248	308.8		mg/Kg		109	90 - 110

Lab Sample ID: 890-2499-31 MSD — **Client Sample ID: SW-21**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 29215

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	38.9		248	308.9		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC VOA

Prep Batch: 29212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-14	BH-37 (5')	Total/NA	Solid	5035	
890-2499-15	BH-38 (5')	Total/NA	Solid	5035	
890-2499-16	BH-39 (5')	Total/NA	Solid	5035	
890-2499-17	BH-40 (5')	Total/NA	Solid	5035	
890-2499-18	BH-41 (5')	Total/NA	Solid	5035	
890-2499-19	BH-42 (5')	Total/NA	Solid	5035	
890-2499-20	BH-43 (5')	Total/NA	Solid	5035	
890-2499-21	BH-44 (5')	Total/NA	Solid	5035	
890-2499-22	BH-45 (5')	Total/NA	Solid	5035	
890-2499-23	BH-46 (5')	Total/NA	Solid	5035	
890-2499-24	BH-47 (5')	Total/NA	Solid	5035	
890-2499-25	BH-48 (5')	Total/NA	Solid	5035	
890-2499-26	SW-16	Total/NA	Solid	5035	
890-2499-27	SW-17	Total/NA	Solid	5035	
890-2499-28	SW-18	Total/NA	Solid	5035	
890-2499-29	SW-19	Total/NA	Solid	5035	
890-2499-30	SW-20	Total/NA	Solid	5035	
890-2499-31	SW-21	Total/NA	Solid	5035	
890-2499-32	SW-22	Total/NA	Solid	5035	
890-2499-33	SW-23	Total/NA	Solid	5035	
MB 880-29212/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29212/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29212/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2499-14 MS	BH-37 (5')	Total/NA	Solid	5035	
890-2499-14 MSD	BH-37 (5')	Total/NA	Solid	5035	

Prep Batch: 29217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-34	SW-24	Total/NA	Solid	5035	
890-2499-35	SW-25	Total/NA	Solid	5035	
890-2499-36	SW-26	Total/NA	Solid	5035	
890-2499-37	SW-27	Total/NA	Solid	5035	
890-2499-38	SW-28	Total/NA	Solid	5035	
890-2499-39	SW-29	Total/NA	Solid	5035	
890-2499-40	SW-30	Total/NA	Solid	5035	
890-2499-41	SW-31	Total/NA	Solid	5035	
890-2499-42	SW-32	Total/NA	Solid	5035	
890-2499-43	SW-33	Total/NA	Solid	5035	
890-2499-44	SW-34	Total/NA	Solid	5035	
890-2499-45	SW-35	Total/NA	Solid	5035	
890-2499-46	SW-36	Total/NA	Solid	5035	
890-2499-47	SW-37	Total/NA	Solid	5035	
890-2499-48	SW-38	Total/NA	Solid	5035	
890-2499-49	SW-39	Total/NA	Solid	5035	
890-2499-50	SW-40	Total/NA	Solid	5035	
890-2499-51	SW-41	Total/NA	Solid	5035	
890-2499-52	SW-42	Total/NA	Solid	5035	
MB 880-29217/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29217/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29217/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2499-34 MS	SW-24	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC VOA (Continued)

Prep Batch: 29217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-34 MSD	SW-24	Total/NA	Solid	5035	

Analysis Batch: 29261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-1	BH-24 (5')	Total/NA	Solid	8021B	29280
890-2499-2	BH-25 (5')	Total/NA	Solid	8021B	29280
890-2499-3	BH-26 (5')	Total/NA	Solid	8021B	29280
890-2499-4	BH-27 (5')	Total/NA	Solid	8021B	29280
890-2499-5	BH-28 (5')	Total/NA	Solid	8021B	29280
890-2499-6	BH-29 (5')	Total/NA	Solid	8021B	29280
890-2499-7	BH-30 (5')	Total/NA	Solid	8021B	29280
890-2499-8	BH-31 (5')	Total/NA	Solid	8021B	29280
MB 880-29280/5-A	Method Blank	Total/NA	Solid	8021B	29280
LCS 880-29280/1-A	Lab Control Sample	Total/NA	Solid	8021B	29280
LCSD 880-29280/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29280
890-2511-A-32-A MS	Matrix Spike	Total/NA	Solid	8021B	29280
890-2511-A-32-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29280

Prep Batch: 29280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-1	BH-24 (5')	Total/NA	Solid	5035	
890-2499-2	BH-25 (5')	Total/NA	Solid	5035	
890-2499-3	BH-26 (5')	Total/NA	Solid	5035	
890-2499-4	BH-27 (5')	Total/NA	Solid	5035	
890-2499-5	BH-28 (5')	Total/NA	Solid	5035	
890-2499-6	BH-29 (5')	Total/NA	Solid	5035	
890-2499-7	BH-30 (5')	Total/NA	Solid	5035	
890-2499-8	BH-31 (5')	Total/NA	Solid	5035	
MB 880-29280/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29280/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29280/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2511-A-32-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2511-A-32-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 29325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-9	BH-32 (5')	Total/NA	Solid	5035	
890-2499-10	BH-33 (5')	Total/NA	Solid	5035	
890-2499-11	BH-34 (5')	Total/NA	Solid	5035	
890-2499-12	BH-35 (5')	Total/NA	Solid	5035	
890-2499-13	BH-36 (5')	Total/NA	Solid	5035	
MB 880-29325/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29325/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29325/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16711-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-16711-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-9	BH-32 (5')	Total/NA	Solid	8021B	29325
890-2499-10	BH-33 (5')	Total/NA	Solid	8021B	29325

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC VOA (Continued)

Analysis Batch: 29358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-11	BH-34 (5')	Total/NA	Solid	8021B	29325
890-2499-12	BH-35 (5')	Total/NA	Solid	8021B	29325
890-2499-13	BH-36 (5')	Total/NA	Solid	8021B	29325
MB 880-29325/5-A	Method Blank	Total/NA	Solid	8021B	29325
LCS 880-29325/1-A	Lab Control Sample	Total/NA	Solid	8021B	29325
LCSD 880-29325/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29325
880-16711-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	29325
880-16711-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29325

Analysis Batch: 29365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-14	BH-37 (5')	Total/NA	Solid	8021B	29212
890-2499-15	BH-38 (5')	Total/NA	Solid	8021B	29212
890-2499-16	BH-39 (5')	Total/NA	Solid	8021B	29212
890-2499-17	BH-40 (5')	Total/NA	Solid	8021B	29212
890-2499-18	BH-41 (5')	Total/NA	Solid	8021B	29212
890-2499-19	BH-42 (5')	Total/NA	Solid	8021B	29212
890-2499-20	BH-43 (5')	Total/NA	Solid	8021B	29212
890-2499-21	BH-44 (5')	Total/NA	Solid	8021B	29212
890-2499-22	BH-45 (5')	Total/NA	Solid	8021B	29212
890-2499-23	BH-46 (5')	Total/NA	Solid	8021B	29212
890-2499-24	BH-47 (5')	Total/NA	Solid	8021B	29212
890-2499-25	BH-48 (5')	Total/NA	Solid	8021B	29212
890-2499-26	SW-16	Total/NA	Solid	8021B	29212
890-2499-27	SW-17	Total/NA	Solid	8021B	29212
890-2499-28	SW-18	Total/NA	Solid	8021B	29212
890-2499-29	SW-19	Total/NA	Solid	8021B	29212
890-2499-30	SW-20	Total/NA	Solid	8021B	29212
890-2499-31	SW-21	Total/NA	Solid	8021B	29212
890-2499-32	SW-22	Total/NA	Solid	8021B	29212
890-2499-33	SW-23	Total/NA	Solid	8021B	29212
MB 880-29212/5-A	Method Blank	Total/NA	Solid	8021B	29212
LCS 880-29212/1-A	Lab Control Sample	Total/NA	Solid	8021B	29212
LCSD 880-29212/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29212
890-2499-14 MS	BH-37 (5')	Total/NA	Solid	8021B	29212
890-2499-14 MSD	BH-37 (5')	Total/NA	Solid	8021B	29212

Analysis Batch: 29367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-34	SW-24	Total/NA	Solid	8021B	29217
890-2499-35	SW-25	Total/NA	Solid	8021B	29217
890-2499-36	SW-26	Total/NA	Solid	8021B	29217
890-2499-37	SW-27	Total/NA	Solid	8021B	29217
890-2499-38	SW-28	Total/NA	Solid	8021B	29217
890-2499-39	SW-29	Total/NA	Solid	8021B	29217
890-2499-40	SW-30	Total/NA	Solid	8021B	29217
890-2499-41	SW-31	Total/NA	Solid	8021B	29217
890-2499-42	SW-32	Total/NA	Solid	8021B	29217
890-2499-43	SW-33	Total/NA	Solid	8021B	29217
890-2499-44	SW-34	Total/NA	Solid	8021B	29217
890-2499-45	SW-35	Total/NA	Solid	8021B	29217

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC VOA (Continued)

Analysis Batch: 29367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-46	SW-36	Total/NA	Solid	8021B	29217
890-2499-47	SW-37	Total/NA	Solid	8021B	29217
890-2499-48	SW-38	Total/NA	Solid	8021B	29217
890-2499-49	SW-39	Total/NA	Solid	8021B	29217
890-2499-50	SW-40	Total/NA	Solid	8021B	29217
890-2499-51	SW-41	Total/NA	Solid	8021B	29217
890-2499-52	SW-42	Total/NA	Solid	8021B	29217
MB 880-29217/5-A	Method Blank	Total/NA	Solid	8021B	29217
LCS 880-29217/1-A	Lab Control Sample	Total/NA	Solid	8021B	29217
LCSD 880-29217/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29217
890-2499-34 MS	SW-24	Total/NA	Solid	8021B	29217
890-2499-34 MSD	SW-24	Total/NA	Solid	8021B	29217

Analysis Batch: 29378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-1	BH-24 (5')	Total/NA	Solid	Total BTEX	
890-2499-2	BH-25 (5')	Total/NA	Solid	Total BTEX	
890-2499-3	BH-26 (5')	Total/NA	Solid	Total BTEX	
890-2499-4	BH-27 (5')	Total/NA	Solid	Total BTEX	
890-2499-5	BH-28 (5')	Total/NA	Solid	Total BTEX	
890-2499-6	BH-29 (5')	Total/NA	Solid	Total BTEX	
890-2499-7	BH-30 (5')	Total/NA	Solid	Total BTEX	
890-2499-8	BH-31 (5')	Total/NA	Solid	Total BTEX	
890-2499-9	BH-32 (5')	Total/NA	Solid	Total BTEX	
890-2499-10	BH-33 (5')	Total/NA	Solid	Total BTEX	
890-2499-11	BH-34 (5')	Total/NA	Solid	Total BTEX	
890-2499-12	BH-35 (5')	Total/NA	Solid	Total BTEX	
890-2499-13	BH-36 (5')	Total/NA	Solid	Total BTEX	
890-2499-14	BH-37 (5')	Total/NA	Solid	Total BTEX	
890-2499-15	BH-38 (5')	Total/NA	Solid	Total BTEX	
890-2499-16	BH-39 (5')	Total/NA	Solid	Total BTEX	
890-2499-17	BH-40 (5')	Total/NA	Solid	Total BTEX	
890-2499-18	BH-41 (5')	Total/NA	Solid	Total BTEX	
890-2499-19	BH-42 (5')	Total/NA	Solid	Total BTEX	
890-2499-20	BH-43 (5')	Total/NA	Solid	Total BTEX	
890-2499-21	BH-44 (5')	Total/NA	Solid	Total BTEX	
890-2499-22	BH-45 (5')	Total/NA	Solid	Total BTEX	
890-2499-23	BH-46 (5')	Total/NA	Solid	Total BTEX	
890-2499-24	BH-47 (5')	Total/NA	Solid	Total BTEX	
890-2499-25	BH-48 (5')	Total/NA	Solid	Total BTEX	
890-2499-26	SW-16	Total/NA	Solid	Total BTEX	
890-2499-27	SW-17	Total/NA	Solid	Total BTEX	
890-2499-28	SW-18	Total/NA	Solid	Total BTEX	
890-2499-29	SW-19	Total/NA	Solid	Total BTEX	
890-2499-30	SW-20	Total/NA	Solid	Total BTEX	
890-2499-31	SW-21	Total/NA	Solid	Total BTEX	
890-2499-32	SW-22	Total/NA	Solid	Total BTEX	
890-2499-33	SW-23	Total/NA	Solid	Total BTEX	
890-2499-34	SW-24	Total/NA	Solid	Total BTEX	
890-2499-35	SW-25	Total/NA	Solid	Total BTEX	
890-2499-36	SW-26	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC VOA (Continued)

Analysis Batch: 29378 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-37	SW-27	Total/NA	Solid	Total BTEX	
890-2499-38	SW-28	Total/NA	Solid	Total BTEX	
890-2499-39	SW-29	Total/NA	Solid	Total BTEX	
890-2499-40	SW-30	Total/NA	Solid	Total BTEX	
890-2499-41	SW-31	Total/NA	Solid	Total BTEX	
890-2499-42	SW-32	Total/NA	Solid	Total BTEX	
890-2499-43	SW-33	Total/NA	Solid	Total BTEX	
890-2499-44	SW-34	Total/NA	Solid	Total BTEX	
890-2499-45	SW-35	Total/NA	Solid	Total BTEX	
890-2499-46	SW-36	Total/NA	Solid	Total BTEX	
890-2499-47	SW-37	Total/NA	Solid	Total BTEX	
890-2499-48	SW-38	Total/NA	Solid	Total BTEX	
890-2499-49	SW-39	Total/NA	Solid	Total BTEX	
890-2499-50	SW-40	Total/NA	Solid	Total BTEX	
890-2499-51	SW-41	Total/NA	Solid	Total BTEX	
890-2499-52	SW-42	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-1	BH-24 (5')	Total/NA	Solid	8015NM Prep	
890-2499-2	BH-25 (5')	Total/NA	Solid	8015NM Prep	
890-2499-3	BH-26 (5')	Total/NA	Solid	8015NM Prep	
890-2499-4	BH-27 (5')	Total/NA	Solid	8015NM Prep	
890-2499-5	BH-28 (5')	Total/NA	Solid	8015NM Prep	
890-2499-6	BH-29 (5')	Total/NA	Solid	8015NM Prep	
890-2499-7	BH-30 (5')	Total/NA	Solid	8015NM Prep	
890-2499-8	BH-31 (5')	Total/NA	Solid	8015NM Prep	
890-2499-9	BH-32 (5')	Total/NA	Solid	8015NM Prep	
890-2499-10	BH-33 (5')	Total/NA	Solid	8015NM Prep	
890-2499-11	BH-34 (5')	Total/NA	Solid	8015NM Prep	
890-2499-12	BH-35 (5')	Total/NA	Solid	8015NM Prep	
890-2499-13	BH-36 (5')	Total/NA	Solid	8015NM Prep	
890-2499-14	BH-37 (5')	Total/NA	Solid	8015NM Prep	
890-2499-15	BH-38 (5')	Total/NA	Solid	8015NM Prep	
890-2499-16	BH-39 (5')	Total/NA	Solid	8015NM Prep	
890-2499-17	BH-40 (5')	Total/NA	Solid	8015NM Prep	
890-2499-18	BH-41 (5')	Total/NA	Solid	8015NM Prep	
890-2499-19	BH-42 (5')	Total/NA	Solid	8015NM Prep	
890-2499-20	BH-43 (5')	Total/NA	Solid	8015NM Prep	
MB 880-29093/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29093/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29093/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2499-1 MS	BH-24 (5')	Total/NA	Solid	8015NM Prep	
890-2499-1 MSD	BH-24 (5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 29094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-21	BH-44 (5')	Total/NA	Solid	8015NM Prep	
890-2499-22	BH-45 (5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Prep Batch: 29094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-23	BH-46 (5')	Total/NA	Solid	8015NM Prep	
890-2499-24	BH-47 (5')	Total/NA	Solid	8015NM Prep	
890-2499-25	BH-48 (5')	Total/NA	Solid	8015NM Prep	
890-2499-26	SW-16	Total/NA	Solid	8015NM Prep	
890-2499-27	SW-17	Total/NA	Solid	8015NM Prep	
890-2499-28	SW-18	Total/NA	Solid	8015NM Prep	
890-2499-29	SW-19	Total/NA	Solid	8015NM Prep	
890-2499-30	SW-20	Total/NA	Solid	8015NM Prep	
890-2499-31	SW-21	Total/NA	Solid	8015NM Prep	
890-2499-32	SW-22	Total/NA	Solid	8015NM Prep	
890-2499-33	SW-23	Total/NA	Solid	8015NM Prep	
890-2499-34	SW-24	Total/NA	Solid	8015NM Prep	
890-2499-35	SW-25	Total/NA	Solid	8015NM Prep	
890-2499-36	SW-26	Total/NA	Solid	8015NM Prep	
890-2499-37	SW-27	Total/NA	Solid	8015NM Prep	
890-2499-38	SW-28	Total/NA	Solid	8015NM Prep	
890-2499-39	SW-29	Total/NA	Solid	8015NM Prep	
890-2499-40	SW-30	Total/NA	Solid	8015NM Prep	
MB 880-29094/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29094/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29094/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2499-21 MS	BH-44 (5')	Total/NA	Solid	8015NM Prep	
890-2499-21 MSD	BH-44 (5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 29095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-41	SW-31	Total/NA	Solid	8015NM Prep	
890-2499-42	SW-32	Total/NA	Solid	8015NM Prep	
890-2499-43	SW-33	Total/NA	Solid	8015NM Prep	
890-2499-44	SW-34	Total/NA	Solid	8015NM Prep	
890-2499-45	SW-35	Total/NA	Solid	8015NM Prep	
890-2499-46	SW-36	Total/NA	Solid	8015NM Prep	
890-2499-47	SW-37	Total/NA	Solid	8015NM Prep	
890-2499-48	SW-38	Total/NA	Solid	8015NM Prep	
890-2499-49	SW-39	Total/NA	Solid	8015NM Prep	
890-2499-50	SW-40	Total/NA	Solid	8015NM Prep	
890-2499-51	SW-41	Total/NA	Solid	8015NM Prep	
890-2499-52	SW-42	Total/NA	Solid	8015NM Prep	
MB 880-29095/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29095/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29095/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2499-41 MS	SW-31	Total/NA	Solid	8015NM Prep	
890-2499-41 MSD	SW-31	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-41	SW-31	Total/NA	Solid	8015B NM	29095
890-2499-42	SW-32	Total/NA	Solid	8015B NM	29095
890-2499-43	SW-33	Total/NA	Solid	8015B NM	29095
890-2499-44	SW-34	Total/NA	Solid	8015B NM	29095
890-2499-45	SW-35	Total/NA	Solid	8015B NM	29095

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 29112 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-46	SW-36	Total/NA	Solid	8015B NM	29095
890-2499-47	SW-37	Total/NA	Solid	8015B NM	29095
890-2499-48	SW-38	Total/NA	Solid	8015B NM	29095
890-2499-49	SW-39	Total/NA	Solid	8015B NM	29095
890-2499-50	SW-40	Total/NA	Solid	8015B NM	29095
890-2499-51	SW-41	Total/NA	Solid	8015B NM	29095
890-2499-52	SW-42	Total/NA	Solid	8015B NM	29095
MB 880-29095/1-A	Method Blank	Total/NA	Solid	8015B NM	29095
LCS 880-29095/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29095
LCSD 880-29095/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29095
890-2499-41 MS	SW-31	Total/NA	Solid	8015B NM	29095
890-2499-41 MSD	SW-31	Total/NA	Solid	8015B NM	29095

Analysis Batch: 29117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-1	BH-24 (5')	Total/NA	Solid	8015B NM	29093
890-2499-2	BH-25 (5')	Total/NA	Solid	8015B NM	29093
890-2499-3	BH-26 (5')	Total/NA	Solid	8015B NM	29093
890-2499-4	BH-27 (5')	Total/NA	Solid	8015B NM	29093
890-2499-5	BH-28 (5')	Total/NA	Solid	8015B NM	29093
890-2499-6	BH-29 (5')	Total/NA	Solid	8015B NM	29093
890-2499-7	BH-30 (5')	Total/NA	Solid	8015B NM	29093
890-2499-8	BH-31 (5')	Total/NA	Solid	8015B NM	29093
890-2499-9	BH-32 (5')	Total/NA	Solid	8015B NM	29093
890-2499-10	BH-33 (5')	Total/NA	Solid	8015B NM	29093
890-2499-11	BH-34 (5')	Total/NA	Solid	8015B NM	29093
890-2499-12	BH-35 (5')	Total/NA	Solid	8015B NM	29093
890-2499-13	BH-36 (5')	Total/NA	Solid	8015B NM	29093
890-2499-14	BH-37 (5')	Total/NA	Solid	8015B NM	29093
890-2499-15	BH-38 (5')	Total/NA	Solid	8015B NM	29093
890-2499-16	BH-39 (5')	Total/NA	Solid	8015B NM	29093
890-2499-17	BH-40 (5')	Total/NA	Solid	8015B NM	29093
890-2499-18	BH-41 (5')	Total/NA	Solid	8015B NM	29093
890-2499-19	BH-42 (5')	Total/NA	Solid	8015B NM	29093
890-2499-20	BH-43 (5')	Total/NA	Solid	8015B NM	29093
890-2499-21	BH-44 (5')	Total/NA	Solid	8015B NM	29094
890-2499-22	BH-45 (5')	Total/NA	Solid	8015B NM	29094
890-2499-23	BH-46 (5')	Total/NA	Solid	8015B NM	29094
890-2499-24	BH-47 (5')	Total/NA	Solid	8015B NM	29094
890-2499-25	BH-48 (5')	Total/NA	Solid	8015B NM	29094
890-2499-26	SW-16	Total/NA	Solid	8015B NM	29094
890-2499-27	SW-17	Total/NA	Solid	8015B NM	29094
890-2499-28	SW-18	Total/NA	Solid	8015B NM	29094
890-2499-29	SW-19	Total/NA	Solid	8015B NM	29094
890-2499-30	SW-20	Total/NA	Solid	8015B NM	29094
890-2499-31	SW-21	Total/NA	Solid	8015B NM	29094
890-2499-32	SW-22	Total/NA	Solid	8015B NM	29094
890-2499-33	SW-23	Total/NA	Solid	8015B NM	29094
890-2499-34	SW-24	Total/NA	Solid	8015B NM	29094
890-2499-35	SW-25	Total/NA	Solid	8015B NM	29094
890-2499-36	SW-26	Total/NA	Solid	8015B NM	29094

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 29117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-37	SW-27	Total/NA	Solid	8015B NM	29094
890-2499-38	SW-28	Total/NA	Solid	8015B NM	29094
890-2499-39	SW-29	Total/NA	Solid	8015B NM	29094
890-2499-40	SW-30	Total/NA	Solid	8015B NM	29094
MB 880-29093/1-A	Method Blank	Total/NA	Solid	8015B NM	29093
MB 880-29094/1-A	Method Blank	Total/NA	Solid	8015B NM	29094
LCS 880-29093/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29093
LCS 880-29094/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29094
LCSD 880-29093/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29093
LCSD 880-29094/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29094
890-2499-1 MS	BH-24 (5')	Total/NA	Solid	8015B NM	29093
890-2499-1 MSD	BH-24 (5')	Total/NA	Solid	8015B NM	29093
890-2499-21 MS	BH-44 (5')	Total/NA	Solid	8015B NM	29094
890-2499-21 MSD	BH-44 (5')	Total/NA	Solid	8015B NM	29094

Analysis Batch: 29179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-1	BH-24 (5')	Total/NA	Solid	8015 NM	
890-2499-2	BH-25 (5')	Total/NA	Solid	8015 NM	
890-2499-3	BH-26 (5')	Total/NA	Solid	8015 NM	
890-2499-4	BH-27 (5')	Total/NA	Solid	8015 NM	
890-2499-5	BH-28 (5')	Total/NA	Solid	8015 NM	
890-2499-6	BH-29 (5')	Total/NA	Solid	8015 NM	
890-2499-7	BH-30 (5')	Total/NA	Solid	8015 NM	
890-2499-8	BH-31 (5')	Total/NA	Solid	8015 NM	
890-2499-9	BH-32 (5')	Total/NA	Solid	8015 NM	
890-2499-10	BH-33 (5')	Total/NA	Solid	8015 NM	
890-2499-11	BH-34 (5')	Total/NA	Solid	8015 NM	
890-2499-12	BH-35 (5')	Total/NA	Solid	8015 NM	
890-2499-13	BH-36 (5')	Total/NA	Solid	8015 NM	
890-2499-14	BH-37 (5')	Total/NA	Solid	8015 NM	
890-2499-15	BH-38 (5')	Total/NA	Solid	8015 NM	
890-2499-16	BH-39 (5')	Total/NA	Solid	8015 NM	
890-2499-17	BH-40 (5')	Total/NA	Solid	8015 NM	
890-2499-18	BH-41 (5')	Total/NA	Solid	8015 NM	
890-2499-19	BH-42 (5')	Total/NA	Solid	8015 NM	
890-2499-20	BH-43 (5')	Total/NA	Solid	8015 NM	
890-2499-21	BH-44 (5')	Total/NA	Solid	8015 NM	
890-2499-22	BH-45 (5')	Total/NA	Solid	8015 NM	
890-2499-23	BH-46 (5')	Total/NA	Solid	8015 NM	
890-2499-24	BH-47 (5')	Total/NA	Solid	8015 NM	
890-2499-25	BH-48 (5')	Total/NA	Solid	8015 NM	
890-2499-26	SW-16	Total/NA	Solid	8015 NM	
890-2499-27	SW-17	Total/NA	Solid	8015 NM	
890-2499-28	SW-18	Total/NA	Solid	8015 NM	
890-2499-29	SW-19	Total/NA	Solid	8015 NM	
890-2499-30	SW-20	Total/NA	Solid	8015 NM	
890-2499-31	SW-21	Total/NA	Solid	8015 NM	
890-2499-32	SW-22	Total/NA	Solid	8015 NM	
890-2499-33	SW-23	Total/NA	Solid	8015 NM	
890-2499-34	SW-24	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

GC Semi VOA (Continued)

Analysis Batch: 29179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-35	SW-25	Total/NA	Solid	8015 NM	
890-2499-36	SW-26	Total/NA	Solid	8015 NM	
890-2499-37	SW-27	Total/NA	Solid	8015 NM	
890-2499-38	SW-28	Total/NA	Solid	8015 NM	
890-2499-39	SW-29	Total/NA	Solid	8015 NM	
890-2499-40	SW-30	Total/NA	Solid	8015 NM	
890-2499-41	SW-31	Total/NA	Solid	8015 NM	
890-2499-42	SW-32	Total/NA	Solid	8015 NM	
890-2499-43	SW-33	Total/NA	Solid	8015 NM	
890-2499-44	SW-34	Total/NA	Solid	8015 NM	
890-2499-45	SW-35	Total/NA	Solid	8015 NM	
890-2499-46	SW-36	Total/NA	Solid	8015 NM	
890-2499-47	SW-37	Total/NA	Solid	8015 NM	
890-2499-48	SW-38	Total/NA	Solid	8015 NM	
890-2499-49	SW-39	Total/NA	Solid	8015 NM	
890-2499-50	SW-40	Total/NA	Solid	8015 NM	
890-2499-51	SW-41	Total/NA	Solid	8015 NM	
890-2499-52	SW-42	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-1	BH-24 (5')	Soluble	Solid	DI Leach	
890-2499-2	BH-25 (5')	Soluble	Solid	DI Leach	
890-2499-3	BH-26 (5')	Soluble	Solid	DI Leach	
890-2499-4	BH-27 (5')	Soluble	Solid	DI Leach	
890-2499-5	BH-28 (5')	Soluble	Solid	DI Leach	
890-2499-6	BH-29 (5')	Soluble	Solid	DI Leach	
890-2499-7	BH-30 (5')	Soluble	Solid	DI Leach	
890-2499-8	BH-31 (5')	Soluble	Solid	DI Leach	
890-2499-9	BH-32 (5')	Soluble	Solid	DI Leach	
890-2499-10	BH-33 (5')	Soluble	Solid	DI Leach	
890-2499-11	BH-34 (5')	Soluble	Solid	DI Leach	
890-2499-12	BH-35 (5')	Soluble	Solid	DI Leach	
890-2499-13	BH-36 (5')	Soluble	Solid	DI Leach	
890-2499-14	BH-37 (5')	Soluble	Solid	DI Leach	
890-2499-15	BH-38 (5')	Soluble	Solid	DI Leach	
890-2499-16	BH-39 (5')	Soluble	Solid	DI Leach	
890-2499-17	BH-40 (5')	Soluble	Solid	DI Leach	
890-2499-18	BH-41 (5')	Soluble	Solid	DI Leach	
890-2499-19	BH-42 (5')	Soluble	Solid	DI Leach	
890-2499-20	BH-43 (5')	Soluble	Solid	DI Leach	
MB 880-29065/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29065/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29065/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2499-1 MS	BH-24 (5')	Soluble	Solid	DI Leach	
890-2499-1 MSD	BH-24 (5')	Soluble	Solid	DI Leach	
890-2499-11 MS	BH-34 (5')	Soluble	Solid	DI Leach	
890-2499-11 MSD	BH-34 (5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

HPLC/IC

Leach Batch: 29066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-21	BH-44 (5')	Soluble	Solid	DI Leach	
890-2499-22	BH-45 (5')	Soluble	Solid	DI Leach	
890-2499-23	BH-46 (5')	Soluble	Solid	DI Leach	
890-2499-24	BH-47 (5')	Soluble	Solid	DI Leach	
890-2499-25	BH-48 (5')	Soluble	Solid	DI Leach	
890-2499-26	SW-16	Soluble	Solid	DI Leach	
890-2499-27	SW-17	Soluble	Solid	DI Leach	
890-2499-28	SW-18	Soluble	Solid	DI Leach	
890-2499-29	SW-19	Soluble	Solid	DI Leach	
890-2499-30	SW-20	Soluble	Solid	DI Leach	
890-2499-31	SW-21	Soluble	Solid	DI Leach	
890-2499-32	SW-22	Soluble	Solid	DI Leach	
890-2499-33	SW-23	Soluble	Solid	DI Leach	
890-2499-34	SW-24	Soluble	Solid	DI Leach	
890-2499-35	SW-25	Soluble	Solid	DI Leach	
890-2499-36	SW-26	Soluble	Solid	DI Leach	
890-2499-37	SW-27	Soluble	Solid	DI Leach	
890-2499-38	SW-28	Soluble	Solid	DI Leach	
890-2499-39	SW-29	Soluble	Solid	DI Leach	
890-2499-40	SW-30	Soluble	Solid	DI Leach	
MB 880-29066/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29066/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29066/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2499-21 MS	BH-44 (5')	Soluble	Solid	DI Leach	
890-2499-21 MSD	BH-44 (5')	Soluble	Solid	DI Leach	
890-2499-31 MS	SW-21	Soluble	Solid	DI Leach	
890-2499-31 MSD	SW-21	Soluble	Solid	DI Leach	

Leach Batch: 29067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-41	SW-31	Soluble	Solid	DI Leach	
890-2499-42	SW-32	Soluble	Solid	DI Leach	
890-2499-43	SW-33	Soluble	Solid	DI Leach	
890-2499-44	SW-34	Soluble	Solid	DI Leach	
890-2499-45	SW-35	Soluble	Solid	DI Leach	
890-2499-46	SW-36	Soluble	Solid	DI Leach	
890-2499-47	SW-37	Soluble	Solid	DI Leach	
890-2499-48	SW-38	Soluble	Solid	DI Leach	
890-2499-49	SW-39	Soluble	Solid	DI Leach	
890-2499-50	SW-40	Soluble	Solid	DI Leach	
890-2499-51	SW-41	Soluble	Solid	DI Leach	
890-2499-52	SW-42	Soluble	Solid	DI Leach	
MB 880-29067/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29067/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29067/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2499-43 MS	SW-33	Soluble	Solid	DI Leach	
890-2499-43 MSD	SW-33	Soluble	Solid	DI Leach	

Analysis Batch: 29211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-41	SW-31	Soluble	Solid	300.0	29067

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

HPLC/IC (Continued)

Analysis Batch: 29211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-42	SW-32	Soluble	Solid	300.0	29067
890-2499-43	SW-33	Soluble	Solid	300.0	29067
890-2499-44	SW-34	Soluble	Solid	300.0	29067
890-2499-45	SW-35	Soluble	Solid	300.0	29067
890-2499-46	SW-36	Soluble	Solid	300.0	29067
890-2499-47	SW-37	Soluble	Solid	300.0	29067
890-2499-48	SW-38	Soluble	Solid	300.0	29067
890-2499-49	SW-39	Soluble	Solid	300.0	29067
890-2499-50	SW-40	Soluble	Solid	300.0	29067
890-2499-51	SW-41	Soluble	Solid	300.0	29067
890-2499-52	SW-42	Soluble	Solid	300.0	29067
MB 880-29067/1-A	Method Blank	Soluble	Solid	300.0	29067
LCS 880-29067/2-A	Lab Control Sample	Soluble	Solid	300.0	29067
LCSD 880-29067/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29067
890-2499-43 MS	SW-33	Soluble	Solid	300.0	29067
890-2499-43 MSD	SW-33	Soluble	Solid	300.0	29067

Analysis Batch: 29214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-1	BH-24 (5')	Soluble	Solid	300.0	29065
890-2499-2	BH-25 (5')	Soluble	Solid	300.0	29065
890-2499-3	BH-26 (5')	Soluble	Solid	300.0	29065
890-2499-4	BH-27 (5')	Soluble	Solid	300.0	29065
890-2499-5	BH-28 (5')	Soluble	Solid	300.0	29065
890-2499-6	BH-29 (5')	Soluble	Solid	300.0	29065
890-2499-7	BH-30 (5')	Soluble	Solid	300.0	29065
890-2499-8	BH-31 (5')	Soluble	Solid	300.0	29065
890-2499-9	BH-32 (5')	Soluble	Solid	300.0	29065
890-2499-10	BH-33 (5')	Soluble	Solid	300.0	29065
890-2499-11	BH-34 (5')	Soluble	Solid	300.0	29065
890-2499-12	BH-35 (5')	Soluble	Solid	300.0	29065
890-2499-13	BH-36 (5')	Soluble	Solid	300.0	29065
890-2499-14	BH-37 (5')	Soluble	Solid	300.0	29065
890-2499-15	BH-38 (5')	Soluble	Solid	300.0	29065
890-2499-16	BH-39 (5')	Soluble	Solid	300.0	29065
890-2499-17	BH-40 (5')	Soluble	Solid	300.0	29065
890-2499-18	BH-41 (5')	Soluble	Solid	300.0	29065
890-2499-19	BH-42 (5')	Soluble	Solid	300.0	29065
890-2499-20	BH-43 (5')	Soluble	Solid	300.0	29065
MB 880-29065/1-A	Method Blank	Soluble	Solid	300.0	29065
LCS 880-29065/2-A	Lab Control Sample	Soluble	Solid	300.0	29065
LCSD 880-29065/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29065
890-2499-1 MS	BH-24 (5')	Soluble	Solid	300.0	29065
890-2499-1 MSD	BH-24 (5')	Soluble	Solid	300.0	29065
890-2499-11 MS	BH-34 (5')	Soluble	Solid	300.0	29065
890-2499-11 MSD	BH-34 (5')	Soluble	Solid	300.0	29065

Analysis Batch: 29215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-21	BH-44 (5')	Soluble	Solid	300.0	29066
890-2499-22	BH-45 (5')	Soluble	Solid	300.0	29066

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

HPLC/IC (Continued)

Analysis Batch: 29215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2499-23	BH-46 (5')	Soluble	Solid	300.0	29066
890-2499-24	BH-47 (5')	Soluble	Solid	300.0	29066
890-2499-25	BH-48 (5')	Soluble	Solid	300.0	29066
890-2499-26	SW-16	Soluble	Solid	300.0	29066
890-2499-27	SW-17	Soluble	Solid	300.0	29066
890-2499-28	SW-18	Soluble	Solid	300.0	29066
890-2499-29	SW-19	Soluble	Solid	300.0	29066
890-2499-30	SW-20	Soluble	Solid	300.0	29066
890-2499-31	SW-21	Soluble	Solid	300.0	29066
890-2499-32	SW-22	Soluble	Solid	300.0	29066
890-2499-33	SW-23	Soluble	Solid	300.0	29066
890-2499-34	SW-24	Soluble	Solid	300.0	29066
890-2499-35	SW-25	Soluble	Solid	300.0	29066
890-2499-36	SW-26	Soluble	Solid	300.0	29066
890-2499-37	SW-27	Soluble	Solid	300.0	29066
890-2499-38	SW-28	Soluble	Solid	300.0	29066
890-2499-39	SW-29	Soluble	Solid	300.0	29066
890-2499-40	SW-30	Soluble	Solid	300.0	29066
MB 880-29066/1-A	Method Blank	Soluble	Solid	300.0	29066
LCS 880-29066/2-A	Lab Control Sample	Soluble	Solid	300.0	29066
LCSD 880-29066/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29066
890-2499-21 MS	BH-44 (5')	Soluble	Solid	300.0	29066
890-2499-21 MSD	BH-44 (5')	Soluble	Solid	300.0	29066
890-2499-31 MS	SW-21	Soluble	Solid	300.0	29066
890-2499-31 MSD	SW-21	Soluble	Solid	300.0	29066

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-24 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29280	07/08/22 10:35	EL	XEN MID
Total/NA	Analysis	8021B		1			29261	07/08/22 19:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 11:41	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 15:37	CH	XEN MID

Client Sample ID: BH-25 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29280	07/08/22 10:35	EL	XEN MID
Total/NA	Analysis	8021B		1			29261	07/08/22 19:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 12:46	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 16:00	CH	XEN MID

Client Sample ID: BH-26 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-3
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			4.95 g	5 mL	29280	07/08/22 10:35	EL	XEN MID
Total/NA	Analysis	8021B		1			29261	07/08/22 19:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 13:08	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 16:08	CH	XEN MID

Client Sample ID: BH-27 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29280	07/08/22 10:35	EL	XEN MID
Total/NA	Analysis	8021B		1			29261	07/08/22 20:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-27 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-4
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			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 13:30	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 16:16	CH	XEN MID

Client Sample ID: BH-28 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-5
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	29280	07/08/22 10:35	EL	XEN MID
Total/NA	Analysis	8021B		1			29261	07/08/22 20:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 13:51	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 16:24	CH	XEN MID

Client Sample ID: BH-29 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29280	07/08/22 10:35	EL	XEN MID
Total/NA	Analysis	8021B		1			29261	07/08/22 21:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 14:13	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 16:47	CH	XEN MID

Client Sample ID: BH-30 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-7
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			4.97 g	5 mL	29280	07/08/22 10:35	EL	XEN MID
Total/NA	Analysis	8021B		1			29261	07/08/22 21:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 14:34	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-30 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 16:55	CH	XEN MID

Client Sample ID: BH-31 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29280	07/08/22 10:35	EL	XEN MID
Total/NA	Analysis	8021B		1			29261	07/08/22 22:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 14:56	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 17:03	CH	XEN MID

Client Sample ID: BH-32 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29325	07/08/22 14:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29358	07/09/22 22:36	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 15:17	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 17:11	CH	XEN MID

Client Sample ID: BH-33 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-10
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			5.03 g	5 mL	29325	07/08/22 14:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29358	07/09/22 22:56	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 15:39	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 17:19	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-34 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29325	07/08/22 14:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29358	07/09/22 23:17	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 16:22	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 17:27	CH	XEN MID

Client Sample ID: BH-35 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-12
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			5.05 g	5 mL	29325	07/08/22 14:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29358	07/09/22 23:38	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 16:44	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 17:50	CH	XEN MID

Client Sample ID: BH-36 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-13
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	29325	07/08/22 14:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29358	07/09/22 23:58	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 17:05	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 17:58	CH	XEN MID

Client Sample ID: BH-37 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 19:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-37 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 17:27	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 18:22	CH	XEN MID

Client Sample ID: BH-38 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-15
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 20:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 17:49	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 18:29	CH	XEN MID

Client Sample ID: BH-39 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 20:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 18:10	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 18:37	CH	XEN MID

Client Sample ID: BH-40 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-17
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 20:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 18:32	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-40 (5')
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 18:45	CH	XEN MID

Client Sample ID: BH-41 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-18
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 21:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 18:53	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 18:53	CH	XEN MID

Client Sample ID: BH-42 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-19
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			5.00 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 21:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 19:15	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 19:01	CH	XEN MID

Client Sample ID: BH-43 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-20
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			5.04 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 21:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29093	07/06/22 07:36	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 19:37	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29065	07/05/22 15:03	CH	XEN MID
Soluble	Analysis	300.0		1			29214	07/08/22 19:09	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-44 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-21
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			4.95 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 22:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 21:24	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 13:29	CH	XEN MID

Client Sample ID: BH-45 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-22
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 22:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 22:29	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 13:57	CH	XEN MID

Client Sample ID: BH-46 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-23
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/10/22 22:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 22:51	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 14:06	CH	XEN MID

Client Sample ID: BH-47 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 00:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: BH-47 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-24
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			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 23:12	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 14:15	CH	XEN MID

Client Sample ID: BH-48 (5')
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 01:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 23:34	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 14:24	CH	XEN MID

Client Sample ID: SW-16
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-26
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 01:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/06/22 23:55	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 17:20	CH	XEN MID

Client Sample ID: SW-17
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-27
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 01:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 00:16	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-17
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 17:29	CH	XEN MID

Client Sample ID: SW-18
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-28
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 02:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 00:37	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 17:38	CH	XEN MID

Client Sample ID: SW-19
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-29
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 02:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 00:58	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 17:47	CH	XEN MID

Client Sample ID: SW-20
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 02:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 01:19	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 17:56	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-21
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-31
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 03:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 02:01	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 18:06	CH	XEN MID

Client Sample ID: SW-22
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 03:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 02:21	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 19:01	CH	XEN MID

Client Sample ID: SW-23
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-33
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	29212	07/07/22 14:20	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29365	07/11/22 03:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 02:43	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 19:10	CH	XEN MID

Client Sample ID: SW-24
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-34
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 17:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-24
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-34
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			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 03:04	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 19:38	CH	XEN MID

Client Sample ID: SW-25
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-35
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 17:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 03:24	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 19:47	CH	XEN MID

Client Sample ID: SW-26
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 17:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 03:46	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 19:56	CH	XEN MID

Client Sample ID: SW-27
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 18:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 04:07	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-27
Date Collected: 06/29/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 20:05	CH	XEN MID

Client Sample ID: SW-28
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-38
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 18:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 04:27	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 20:15	CH	XEN MID

Client Sample ID: SW-29
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-39
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 19:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 04:49	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 20:24	CH	XEN MID

Client Sample ID: SW-30
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-40
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 19:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29094	07/06/22 07:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29117	07/07/22 05:09	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29066	07/05/22 15:08	CH	XEN MID
Soluble	Analysis	300.0		1			29215	07/08/22 20:33	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-31
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 20:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/06/22 21:57	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 04:43	CH	XEN MID

Client Sample ID: SW-32
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-42
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 20:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/06/22 23:02	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 04:52	CH	XEN MID

Client Sample ID: SW-33
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 21:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/06/22 23:23	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 05:02	CH	XEN MID

Client Sample ID: SW-34
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-44
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 22:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-34
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-44
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			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/06/22 23:44	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 05:30	CH	XEN MID

Client Sample ID: SW-35
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-45
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 23:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/07/22 00:05	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 05:39	CH	XEN MID

Client Sample ID: SW-36
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/10/22 23:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/07/22 00:25	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 06:06	CH	XEN MID

Client Sample ID: SW-37
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/11/22 00:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/07/22 00:45	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-37
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 06:16	CH	XEN MID

Client Sample ID: SW-38
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-48
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/11/22 00:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/07/22 01:05	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 06:25	CH	XEN MID

Client Sample ID: SW-39
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-49
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/11/22 00:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/07/22 01:26	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 06:34	CH	XEN MID

Client Sample ID: SW-40
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-50
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/11/22 01:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/07/22 01:46	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 06:43	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Client Sample ID: SW-41
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/11/22 01:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/07/22 02:27	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 06:53	CH	XEN MID

Client Sample ID: SW-42
Date Collected: 06/30/22 00:00
Date Received: 07/05/22 08:08

Lab Sample ID: 890-2499-52
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	29217	07/07/22 14:34	EL	XEN MID
Total/NA	Analysis	8021B		1			29367	07/11/22 02:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29378	07/11/22 07:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29179	07/07/22 09:01	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29095	07/06/22 07:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			29112	07/07/22 02:47	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29067	07/05/22 15:11	CH	XEN MID
Soluble	Analysis	300.0		1			29211	07/08/22 07:02	CH	XEN MID

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 890-2499-1
Project/Site: Solaris Palmilla to St HU Line SDG: Carlsbad 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: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2499-1
SDG: Carlsbad NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2499-1	BH-24 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-2	BH-25 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-3	BH-26 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-4	BH-27 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-5	BH-28 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-6	BH-29 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-7	BH-30 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-8	BH-31 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-9	BH-32 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-10	BH-33 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-11	BH-34 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-12	BH-35 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-13	BH-36 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-14	BH-37 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-15	BH-38 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-16	BH-39 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-17	BH-40 (5')	Solid	06/29/22 00:00	07/05/22 08:08	5
890-2499-18	BH-41 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-19	BH-42 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-20	BH-43 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-21	BH-44 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-22	BH-45 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-23	BH-46 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-24	BH-47 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-25	BH-48 (5')	Solid	06/30/22 00:00	07/05/22 08:08	5
890-2499-26	SW-16	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-27	SW-17	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-28	SW-18	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-29	SW-19	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-30	SW-20	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-31	SW-21	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-32	SW-22	Solid	06/29/22 00:00	07/05/22 08:08	
890-2499-33	SW-23	Solid	06/29/22 00:00	07/05/22 08:08	
890-2499-34	SW-24	Solid	06/29/22 00:00	07/05/22 08:08	
890-2499-35	SW-25	Solid	06/29/22 00:00	07/05/22 08:08	
890-2499-36	SW-26	Solid	06/29/22 00:00	07/05/22 08:08	
890-2499-37	SW-27	Solid	06/29/22 00:00	07/05/22 08:08	
890-2499-38	SW-28	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-39	SW-29	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-40	SW-30	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-41	SW-31	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-42	SW-32	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-43	SW-33	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-44	SW-34	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-45	SW-35	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-46	SW-36	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-47	SW-37	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-48	SW-38	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-49	SW-39	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-50	SW-40	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-51	SW-41	Solid	06/30/22 00:00	07/05/22 08:08	
890-2499-52	SW-42	Solid	06/30/22 00:00	07/05/22 08:08	

Page 460 of 703

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Solaris Palmilla to St HU Line	Contact Info:	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	Project #:	212C-MD-02473
Invoice to:	Accounts Payable Tetra Tech 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel A. Flores
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-24 (5')	6/30/2022			X				X					X		X												X							
	Bh-25 (5')	6/30/2022			X				X					X		X												X							
	BH-26 (5')	6/30/2022			X				X					X		X												X							
	BH-27 (5')	6/30/2022			X				X					X		X												X							
	BH-28 (5')	6/30/2022			X				X					X		X												X							
	BH-29 (5')	6/29/2022			X				X					X		X												X							
	BH- 30 (5')	6/29/2022			X				X					X		X												X							
	BH-31 (5')	6/29/2022			X				X					X		X												X							
	BH-32 (5')	6/29/2022			X				X					X		X												X							
	BH-33 (5')	6/29/2022			X				X					X		X												X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	7/5/22	0806	[signature]	7.5.22	0808
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ORIGINAL COPY

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature 5.8/5.6

REMARKS:

[X] STANDARD

[ ] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 461 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Solaris Palmilla to St HU Line	Contact Info:	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	Project #:	212C-MD-02473
Invoice to:	Accounts Payable Tetra tech 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-34 (5')	6/29/2022			X				X					X		X												X							
	BH-35 (5')	6/29/2022			X				X					X		X												X							
	BH-36 (5')	6/29/2022			X				X					X		X												X							
	BH-37 (5')	6/29/2022			X				X					X		X												X							
	BH-38 (5')	6/29/2022			X				X					X		X												X							
	BH-39 (5')	6/29/2022			X				X					X		X												X							
	BH-40 (5')	6/29/2022			X				X					X		X												X							
	BH-41 (5')	6/30/2022			X				X					X		X												X							
	BH-42 (5')	6/30/2022			X				X					X		X												X							
	BH-43 (5')	6/30/2022			X				X					X		X												X							

Relinquished by: Miguel A. Flores	Date: 7/6/22	Time: 0807	Received by: Clint Clay
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

7/11/2022

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 462 of 703

Analysis Request of Chain of Custody Record

7/11/2022

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	**Site Manager:**	Britanny Long
Project Name:	Solaris Palmilla to St HU Line	**Contact Info:**	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	**Project #:**	212C-MD-02473
Invoice to:	Accounts Payable Tetra tech 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Miguel A. Flores
Comments:			

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold	BTEX 8260B
	BH-44 (5')	6/30/2022			X				X					X		X												X									
	BH-45 (5')	6/30/2022			X				X					X		X												X									
	BH-46 (5')	6/30/2022			X				X					X		X												X									
	BH-47 (5')	6/30/2022			X				X					X		X												X									
	BH-48 (5')	6/30/2022			X				X					X		X												X									

Relinquished by:	Date: 7/5/22	Time: 0807	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 96 of 107

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 463 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

9010 W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	**Site Manager:**	Britanny Long
Project Name:	Solaris Palmilla to St HU Line	**Contact Info:**	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	**Project #:**	212C-MD-02473
Invoice to:	Accounts Payable Tetra tech 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Miguel A. Flores
Comments:			

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
												BTEX 8260B																							
	SW-16	6/30/2022			X			X				X		X												X								
	SW-17	6/30/2022			X			X				X		X												X								
	SW-18	6/30/2022			X			X				X		X												X								
	SW-19	6/30/2022			X			X				X		X												X								
	SW-20	6/30/2022			X			X				X		X												X								
	SW-21	6/30/2022			X			X				X		X												X								
	SW-22	6/29/2022			X			X				X		X												X								
	SW-23	6/29/2022			X			X				X		X												X								
	SW-24	6/29/2022			X			X				X		X												X								
	SW-25	6/29/2022			X			X				X		X												X								

Relinquished by:	Date: 7/5/22	Time: 0807	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 464 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Solaris Palmilla to St HU Line	Contact Info:	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	Project #:	212C-MD-02473
Invoice to:	Accounts Payable Tetra tech 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-26	6/29/2022			X			X				X			X												X							
	SW-27	6/29/2022			X			X				X			X												X							
	SW-28	6/30/2022			X			X				X			X												X							
	SW-29	6/30/2022			X			X				X			X												X							
	SW-30	6/30/2022			X			X				X			X												X							
	SW-31	6/30/2022			X			X				X			X												X							
	SW-32	6/30/2022			X			X				X			X												X							
	SW-33	6/30/2022			X			X				X			X												X							
	SW-34	6/30/2022			X			X				X			X												X							
	SW-35	6/30/2022			X			X				X			X												X							

Relinquished by:	Date: 7/5/22	Time: 0808	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY
Sample Temperature

REMARKS:
[X] STANDARD
[ ] RUSH: Same Day 24 hr 48 hr 72 hr
[ ] Rush Charges Authorized
[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 465 of 703

7/11/2022

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Britanny Long
Project Name:	Solaris Palmilla to St HU Line	Contact Info:	Email: Brittany.Long@tetratech.com Phone: (432) 741-5813
Project Location: (county, state)	Carlsbad, NM	Project #:	212C-MD-02473
Invoice to:	Accounts Payable Tetra tech 901 West Wall Street, Suit 100 Midlad, Texas 79701		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-36	6/30/2022			X				X					X		X												X							
	SW-37	6/30/2022			X				X					X		X												X							
	SW-38	6/30/2022			X				X					X		X												X							
	SW-39	6/30/2022			X				X					X		X												X							
	SW-40	6/30/2022			X				X					X		X												X							
	SW-41	6/30/2022			X				X					X		X												X							
	SW-42	6/30/2022			X				X					X		X												X							

Relinquished by:	Date: 7/5/22	Time: 0808	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature: Pg1

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 99 of 107

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 466 of 703

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-828 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 6
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2499-1
Address: 1211 W Florida Ave	Due Date Requested: 7/8/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: solaris palmilla to st hu linew	Project #: 88000039			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FM_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035A_M_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note
			Preservation Code:											
BH-24 5 (890-2499-1)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-25 5 (890-2499-2)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-26 5 (890-2499-3)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-27 5 (890-2499-4)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-28 5 (890-2499-5)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-29 5 (890-2499-6)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-30 5 (890-2499-7)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-31 5 (890-2499-8)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-32 5 (890-2499-9)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Clw			Kramer	7/5/22	
2					1310	
3		Date/Time:				

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1 2/1.0

Ver: 06/08/2021

Received by OCD: 10/6/2022 6:47:08 AM
Page 100 of 107
7/11/2022
Released to Imaging: 10/17/2022 12:02:07 PM

Page 467 of 703

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s)	COC No: 890-828 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 6
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2499-1
Address: 1211 W Florida Ave	Due Date Requested: 7/8/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: solaris palmilla to st hu linew	Project #: 88000039			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FM_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035A_M_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note.
			Preservation Code:											
BH-33 5 (890-2499-10)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-34 5 (890-2499-11)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-35 5 (890-2499-12)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-36 5 (890-2499-13)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-37 5 (890-2499-14)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-38 5 (890-2499-15)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-39 5 (890-2499-16)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-40 5 (890-2499-17)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-41 5 (890-2499-18)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Received by OCD: 10/6/2022 6:47:08 AM
Page 101 of 107
7/11/2022
Released to Imaging: 10/17/2022 12:02:07 PM

Page 468 of 703

Eurofins Carlsbad
1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-828 3
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 3 of 6
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-2499-1
Address: 1211 W Florida Ave	Due Date Requested: 7/8/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701	PO #:			
Phone: 432-704-5440(Tel)	WO #:			
Email	Project #: 88000039			
Project Name: solaris palmilla to st hu linew	SSOW#:			
Site:				

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J Di Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y - Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FM_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035A_M_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note.
Preservation Code:														
BH-42 5 (890-2499-19)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-43 5 (890-2499-20)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-44 5 (890-2499-21)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-45 5 (890-2499-22)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-46 5 (890-2499-23)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-47 5 (890-2499-24)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
BH-48 5 (890-2499-25)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-16 (890-2499-26)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-17 (890-2499-27)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Received by OCD: 10/6/2022 6:47:08 AM
Released to Imaging: 10/17/2022 12:02:07 PM
7/11/2022
Page 102 of 107

Page 469 of 703

Eurofins Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-828 4
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 4 of 6
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2499-1
Address: 1211 W Florida Ave	Due Date Requested: 7/8/2022			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: solaris palmilla to st hu linew	Project #: 88000039			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FM_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035A_M_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note
			Preservation Code:											
SW-18 (890-2499-28)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-19 (890-2499-29)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-20 (890-2499-30)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-21 (890-2499-31)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-22 (890-2499-32)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-23 (890-2499-33)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-24 (890-2499-34)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-25 (890-2499-35)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-26 (890-2499-36)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 470 of 703

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-828 5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 5 of 6
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2499-1
Address: 1211 W Florida Ave	Due Date Requested: 7/8/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: solaris palmilla to st hu linew	Project #: 88000039			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FM_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035A_M_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
SW-27 (890-2499-37)	6/29/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-28 (890-2499-38)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-29 (890-2499-39)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-30 (890-2499-40)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-31 (890-2499-41)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-32 (890-2499-42)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-33 (890-2499-43)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-34 (890-2499-44)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-35 (890-2499-45)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 471 of 703

Eurofins Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone. 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-828 6
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 6 of 6
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2499-1
Address: 1211 W Florida Ave	Due Date Requested: 7/8/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #			
Project Name: solaris palmilla to st hu linew	Project #: 88000039			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FM_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035A_M_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
SW-36 (890-2499-46)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-37 (890-2499-47)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-38 (890-2499-48)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-39 (890-2499-49)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-40 (890-2499-50)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-41 (890-2499-51)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	
SW-42 (890-2499-52)	6/30/22	Mountain		Solid			X	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Received by OCD: 10/6/2022 6:47:08 AM
Page 105 of 107
7/11/2022
Released to Imaging: 10/17/2022 12:02:07 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2499-1
SDG Number: Carlsbad NM

Login Number: 2499
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2499-1
SDG Number: Carlsbad NM

Login Number: 2499
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 07/05/22 01:12 PM

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

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-2566-1
Laboratory Sample Delivery Group: 212C-MD-02473
Client Project/Site: Palmilla to St HU Line

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

Attn: Brittany Long

JKramer

Authorized for release by:
7/26/2022 10:33:13 AM

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 6
Surrogate Summary 28
QC Sample Results 30
QC Association Summary 39
Lab Chronicle 46
Certification Summary 55
Method Summary 56
Sample Summary 57
Chain of Custody 58
Receipt Checklists 61

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Qualifiers

GC VOA

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

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: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Job ID: 890-2566-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2566-1

Receipt
The samples were received on 7/15/2022 4:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-30180 and analytical batch 880-30181 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-66 (0-2) (890-2566-10). 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: SW-69 (0-2) (890-2566-13), SW-70 (0-5) (890-2566-14) and SW-71 (0-5) (890-2566-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-30080/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-30080 and analytical batch 880-30146 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-30080 and analytical batch 880-30146 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-30079/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-30079 and analytical batch 880-30098 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-30079 and analytical batch 880-30098 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample 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.

HPLC/IC
Method 300_ORGFM_28D: SW-57 (0-5) (890-2566-1) The matrix spike duplicate (MSD) recoveries for preparation batch 880-30021 and analytical batch 880-30225 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Job ID: 890-2566-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-57 (0-5) Lab Sample ID: 890-2566-1

Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:18	07/24/22 09:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:18	07/24/22 09:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:18	07/24/22 09:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/22/22 10:18	07/24/22 09:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/22/22 10:18	07/24/22 09:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/22/22 10:18	07/24/22 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/22/22 10:18*	*07/24/22 09:14*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*07/22/22 10:18*	*07/24/22 09:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U F2	50.0		mg/Kg		07/19/22 16:10	07/20/22 12:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 12:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*07/19/22 16:10*	*07/20/22 12:07*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*07/19/22 16:10*	*07/20/22 12:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		5.04		mg/Kg			07/21/22 20:57	1

Client Sample ID: SW-58 (0-5) Lab Sample ID: 890-2566-2

Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/20/22 21:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/20/22 21:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/20/22 21:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/20/22 16:33	07/20/22 21:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/20/22 21:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/20/22 16:33	07/20/22 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/20/22 16:33*	*07/20/22 21:49*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/20/22 16:33*	*07/20/22 21:49*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-58 (0-5)

Lab Sample ID: 890-2566-2
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 13:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 13:12	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*07/19/22 16:10*	*07/20/22 13:12*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*07/19/22 16:10*	*07/20/22 13:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.0**		4.99		mg/Kg			07/21/22 21:06	1

Client Sample ID: SW-59 (0-5)

Lab Sample ID: 890-2566-3
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 22:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 22:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 22:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/20/22 22:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 22:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/20/22 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/20/22 16:33*	*07/20/22 22:10*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/20/22 16:33*	*07/20/22 22:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 13:32	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-59 (0-5) Lab Sample ID: 890-2566-3

Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 13:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*07/19/22 16:10*	*07/20/22 13:32*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*07/19/22 16:10*	*07/20/22 13:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.7**		5.02		mg/Kg			07/21/22 21:34	1

Client Sample ID: SW-60 (0-5) Lab Sample ID: 890-2566-4

Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/20/22 22:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/20/22 22:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/20/22 22:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/20/22 16:33	07/20/22 22:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/20/22 22:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/20/22 16:33	07/20/22 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/20/22 16:33*	*07/20/22 22:31*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/20/22 16:33*	*07/20/22 22:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 13:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 13:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*07/19/22 16:10*	*07/20/22 13:54*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*07/19/22 16:10*	*07/20/22 13:54*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-60 (0-5)

Lab Sample ID: 890-2566-4
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.9		5.02		mg/Kg			07/21/22 21:43	1

Client Sample ID: SW-61 (0-4)

Lab Sample ID: 890-2566-5
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 22:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 22:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 22:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/20/22 22:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 22:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/20/22 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/20/22 16:33*	*07/20/22 22:52*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/20/22 16:33*	*07/20/22 22:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*07/19/22 16:10*	*07/20/22 14:16*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*07/19/22 16:10*	*07/20/22 14:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.4		4.97		mg/Kg			07/21/22 22:11	1

Client Sample ID: SW-62 (0-4)

Lab Sample ID: 890-2566-6
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/20/22 16:33	07/21/22 00:15	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-62 (0-4)
Lab Sample ID: 890-2566-6
Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198		mg/Kg		07/20/22 16:33	07/21/22 00:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/20/22 16:33	07/21/22 00:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/20/22 16:33	07/21/22 00:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/20/22 16:33	07/21/22 00:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/20/22 16:33	07/21/22 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/20/22 16:33*	*07/21/22 00:15*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/20/22 16:33*	*07/21/22 00:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*07/19/22 16:10*	*07/20/22 14:37*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*07/19/22 16:10*	*07/20/22 14:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		4.96		mg/Kg			07/21/22 22:20	1

Client Sample ID: SW-63 (0-4)
Lab Sample ID: 890-2566-7
Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/21/22 00:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/21/22 00:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/21/22 00:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/20/22 16:33	07/21/22 00:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/21/22 00:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/20/22 16:33	07/21/22 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/20/22 16:33*	*07/21/22 00:35*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/20/22 16:33*	*07/21/22 00:35*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-63 (0-4)

Lab Sample ID: 890-2566-7
Matrix: Solid

Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 4

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*07/19/22 16:10*	*07/20/22 14:59*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*07/19/22 16:10*	*07/20/22 14:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.8**		4.95		mg/Kg			07/21/22 22:29	1

Client Sample ID: SW-64 (0-5)

Lab Sample ID: 890-2566-8
Matrix: Solid

Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/21/22 00:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/21/22 00:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/21/22 00:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/20/22 16:33	07/21/22 00:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/21/22 00:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/20/22 16:33	07/21/22 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*07/20/22 16:33*	*07/21/22 00:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/20/22 16:33*	*07/21/22 00:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 15:21	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-64 (0-5)

Lab Sample ID: 890-2566-8
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 15:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*07/19/22 16:10*	*07/20/22 15:21*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*07/19/22 16:10*	*07/20/22 15:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.6**		5.00		mg/Kg			07/22/22 07:36	1

Client Sample ID: SW-65 (0-5)

Lab Sample ID: 890-2566-9
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 01:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 01:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 01:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/20/22 16:33	07/21/22 01:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 01:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/20/22 16:33	07/21/22 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/20/22 16:33*	*07/21/22 01:17*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/20/22 16:33*	*07/21/22 01:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 15:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 15:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*07/19/22 16:10*	*07/20/22 15:41*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*07/19/22 16:10*	*07/20/22 15:41*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-65 (0-5)

Lab Sample ID: 890-2566-9
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.3		4.96		mg/Kg			07/22/22 07:45	1

Client Sample ID: SW-66 (0-2)

Lab Sample ID: 890-2566-10
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 01:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 01:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 01:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/21/22 01:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 01:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/21/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*166*	*S1+*	*70 - 130*	*07/20/22 16:33*	*07/21/22 01:37*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/20/22 16:33*	*07/21/22 01:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 16:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 16:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*07/19/22 16:10*	*07/20/22 16:03*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*07/19/22 16:10*	*07/20/22 16:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		5.04		mg/Kg			07/22/22 07:55	1

Client Sample ID: SW-67 (0-2)

Lab Sample ID: 890-2566-11
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/21/22 01:58	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-67 (0-2) Lab Sample ID: 890-2566-11

Date Collected: 07/13/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/21/22 01:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/21/22 01:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/20/22 16:33	07/21/22 01:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/20/22 16:33	07/21/22 01:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/20/22 16:33	07/21/22 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*07/20/22 16:33*	*07/21/22 01:58*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/20/22 16:33*	*07/21/22 01:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 16:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 16:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*07/19/22 16:10*	*07/20/22 16:46*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*07/19/22 16:10*	*07/20/22 16:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		4.99		mg/Kg			07/22/22 08:04	1

Client Sample ID: SW-68 (0-2) Lab Sample ID: 890-2566-12

Date Collected: 07/13/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/21/22 02:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/21/22 02:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/21/22 02:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/20/22 16:33	07/21/22 02:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/20/22 16:33	07/21/22 02:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/20/22 16:33	07/21/22 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*07/20/22 16:33*	*07/21/22 02:19*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/20/22 16:33*	*07/21/22 02:19*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-68 (0-2)

Lab Sample ID: 890-2566-12
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 2

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 17:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 17:07	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*07/19/22 16:10*	*07/20/22 17:07*	*1*
o-Terphenyl (Surr)	*129*		*70 - 130*	*07/19/22 16:10*	*07/20/22 17:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.6**		4.97		mg/Kg			07/21/22 01:36	1

Client Sample ID: SW-69 (0-2)

Lab Sample ID: 890-2566-13
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 02:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 02:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 02:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/21/22 02:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 02:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/21/22 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*07/20/22 16:33*	*07/21/22 02:39*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/20/22 16:33*	*07/21/22 02:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 17:29	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-69 (0-2) Lab Sample ID: 890-2566-13

Date Collected: 07/13/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 17:29	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*07/19/22 16:10*	*07/20/22 17:29*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*07/19/22 16:10*	*07/20/22 17:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.2**		5.03		mg/Kg			07/21/22 02:04	1

Client Sample ID: SW-70 (0-5) Lab Sample ID: 890-2566-14

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 03:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 03:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 03:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/20/22 16:33	07/21/22 03:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 03:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/20/22 16:33	07/21/22 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*07/20/22 16:33*	*07/21/22 03:00*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/20/22 16:33*	*07/21/22 03:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 17:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 17:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*07/19/22 16:10*	*07/20/22 17:49*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*07/19/22 16:10*	*07/20/22 17:49*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-70 (0-5)

Lab Sample ID: 890-2566-14
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		4.96		mg/Kg			07/21/22 02:13	1

Client Sample ID: SW-71 (0-5)

Lab Sample ID: 890-2566-15
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 03:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 03:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 03:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/21/22 03:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/21/22 03:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/20/22 16:33	07/21/22 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*49*	*S1-*	*70 - 130*	*07/20/22 16:33*	*07/21/22 03:20*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/20/22 16:33*	*07/21/22 03:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 18:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*07/19/22 16:10*	*07/20/22 18:11*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*07/19/22 16:10*	*07/20/22 18:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.4		4.95		mg/Kg			07/21/22 02:23	1

Client Sample ID: SW-72 (0-5)

Lab Sample ID: 890-2566-16
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:38	07/21/22 12:07	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-72 (0-5)
Lab Sample ID: 890-2566-16
Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:38	07/21/22 12:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:38	07/21/22 12:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/22 09:38	07/21/22 12:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:38	07/21/22 12:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/22 09:38	07/21/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/21/22 09:38*	*07/21/22 12:07*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/21/22 09:38*	*07/21/22 12:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 18:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 18:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:10	07/20/22 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*07/19/22 16:10*	*07/20/22 18:32*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*07/19/22 16:10*	*07/20/22 18:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		5.00		mg/Kg			07/21/22 02:32	1

Client Sample ID: SW-73 (0-5)
Lab Sample ID: 890-2566-17
Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 12:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 12:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 12:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/22 09:38	07/21/22 12:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 12:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/22 09:38	07/21/22 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/21/22 09:38*	*07/21/22 12:28*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*07/21/22 09:38*	*07/21/22 12:28*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-73 (0-5)

Lab Sample ID: 890-2566-17
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 18:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 18:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*07/19/22 16:10*	*07/20/22 18:54*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*07/19/22 16:10*	*07/20/22 18:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.1**		5.04		mg/Kg			07/21/22 02:59	1

Client Sample ID: SW-74 (0-5)

Lab Sample ID: 890-2566-18
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/22 09:38	07/21/22 12:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/22 09:38	07/21/22 12:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/22 09:38	07/21/22 12:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/22 09:38	07/21/22 12:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/22 09:38	07/21/22 12:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/22 09:38	07/21/22 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/21/22 09:38*	*07/21/22 12:48*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/21/22 09:38*	*07/21/22 12:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:15	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-74 (0-5) Lab Sample ID: 890-2566-18

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*07/19/22 16:10*	*07/20/22 19:15*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*07/19/22 16:10*	*07/20/22 19:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.4**		5.05		mg/Kg			07/21/22 03:09	1

Client Sample ID: BH-58 (5) Lab Sample ID: 890-2566-19

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 13:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 13:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 13:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/21/22 09:38	07/21/22 13:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 13:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/21/22 09:38	07/21/22 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/21/22 09:38*	*07/21/22 13:09*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*07/21/22 09:38*	*07/21/22 13:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*07/19/22 16:10*	*07/20/22 19:37*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*07/19/22 16:10*	*07/20/22 19:37*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: BH-58 (5)

Lab Sample ID: 890-2566-19
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		5.03		mg/Kg			07/21/22 03:18	1

Client Sample ID: BH-59 (2)

Lab Sample ID: 890-2566-20
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:27	07/21/22 12:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:27	07/21/22 12:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:27	07/21/22 12:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/22 09:27	07/21/22 12:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:27	07/21/22 12:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/22 09:27	07/21/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/21/22 09:27*	*07/21/22 12:02*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/21/22 09:27*	*07/21/22 12:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:10	07/20/22 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*07/19/22 16:10*	*07/20/22 19:58*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*07/19/22 16:10*	*07/20/22 19:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		5.03		mg/Kg			07/21/22 03:27	1

Client Sample ID: BH-60 (2)

Lab Sample ID: 890-2566-21
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 12:23	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: BH-60 (2) Lab Sample ID: 890-2566-21

Date Collected: 07/13/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 12:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 12:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/22 09:27	07/21/22 12:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 12:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/22 09:27	07/21/22 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/21/22 09:27*	*07/21/22 12:23*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/21/22 09:27*	*07/21/22 12:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 19:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:15	07/20/22 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*07/19/22 16:15*	*07/20/22 19:26*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*07/19/22 16:15*	*07/20/22 19:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**		5.00		mg/Kg			07/21/22 03:36	1

Client Sample ID: BH-61 (2) Lab Sample ID: 890-2566-22

Date Collected: 07/13/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/21/22 09:27	07/21/22 12:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/21/22 09:27	07/21/22 12:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/21/22 09:27	07/21/22 12:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/21/22 09:27	07/21/22 12:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/21/22 09:27	07/21/22 12:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/21/22 09:27	07/21/22 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*07/21/22 09:27*	*07/21/22 12:44*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/21/22 09:27*	*07/21/22 12:44*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: BH-61 (2)

Lab Sample ID: 890-2566-22
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 19:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 19:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:15	07/20/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*07/19/22 16:15*	*07/20/22 19:48*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*07/19/22 16:15*	*07/20/22 19:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**347**		4.97		mg/Kg			07/21/22 03:45	1

Client Sample ID: BH-62 (2)

Lab Sample ID: 890-2566-23
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 13:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 13:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 13:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/22 09:27	07/21/22 13:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 13:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/22 09:27	07/21/22 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*07/21/22 09:27*	*07/21/22 13:04*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/21/22 09:27*	*07/21/22 13:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 20:09	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: BH-62 (2)

Lab Sample ID: 890-2566-23
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 20:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:15	07/20/22 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*07/19/22 16:15*	*07/20/22 20:09*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*07/19/22 16:15*	*07/20/22 20:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**337**		5.02		mg/Kg			07/21/22 04:13	1

Client Sample ID: BH-63 (2)

Lab Sample ID: 890-2566-24
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 13:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 13:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 13:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/21/22 09:27	07/21/22 13:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 13:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/21/22 09:27	07/21/22 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/21/22 09:27*	*07/21/22 13:25*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/21/22 09:27*	*07/21/22 13:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U *1 *+	50.0		mg/Kg		07/19/22 16:15	07/20/22 20:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	50.0		mg/Kg		07/19/22 16:15	07/20/22 20:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:15	07/20/22 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*07/19/22 16:15*	*07/20/22 20:32*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*07/19/22 16:15*	*07/20/22 20:32*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: BH-63 (2)

Lab Sample ID: 890-2566-24
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		5.05		mg/Kg			07/21/22 04:22	1

Client Sample ID: BH-64 (2)

Lab Sample ID: 890-2566-25
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:27	07/21/22 13:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:27	07/21/22 13:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:27	07/21/22 13:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/21/22 09:27	07/21/22 13:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/21/22 09:27	07/21/22 13:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/21/22 09:27	07/21/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/21/22 09:27*	*07/21/22 13:46*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/21/22 09:27*	*07/21/22 13:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U *1 *+	50.0		mg/Kg		07/19/22 16:15	07/20/22 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	50.0		mg/Kg		07/19/22 16:15	07/20/22 20:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:15	07/20/22 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*07/19/22 16:15*	*07/20/22 20:54*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*07/19/22 16:15*	*07/20/22 20:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		25.3		mg/Kg			07/21/22 04:50	5

Client Sample ID: BH-65 (2)

Lab Sample ID: 890-2566-26
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 16:29	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: BH-65 (2) Lab Sample ID: 890-2566-26

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 16:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 16:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/21/22 09:27	07/21/22 16:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 16:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/21/22 09:27	07/21/22 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/21/22 09:27*	*07/21/22 16:29*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/21/22 09:27*	*07/21/22 16:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 21:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 21:39	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:15	07/20/22 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*07/19/22 16:15*	*07/20/22 21:39*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*07/19/22 16:15*	*07/20/22 21:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.0**		5.05		mg/Kg			07/21/22 04:59	1

Client Sample ID: HD-1 (0-1) Lab Sample ID: 890-2566-27

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/21/22 09:27	07/21/22 16:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/21/22 09:27	07/21/22 16:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/21/22 09:27	07/21/22 16:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/21/22 09:27	07/21/22 16:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/21/22 09:27	07/21/22 16:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/21/22 09:27	07/21/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/21/22 09:27*	*07/21/22 16:50*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/21/22 09:27*	*07/21/22 16:50*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

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

Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53
Sample Depth: 0 - 1

Lab Sample ID: 890-2566-27

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/21/22 10:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/21/22 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 22:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1 *+	49.9		mg/Kg		07/19/22 16:15	07/20/22 22:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/22 16:15	07/20/22 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*07/19/22 16:15*	*07/20/22 22:00*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*07/19/22 16:15*	*07/20/22 22:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**376**		4.98		mg/Kg			07/21/22 05:08	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

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)										
880-16985-A-1-H MS	Matrix Spike	107	87										
880-16985-A-1-I MSD	Matrix Spike Duplicate	118	94										
880-17129-A-12-E MS	Matrix Spike	122	89										
880-17129-A-12-F MSD	Matrix Spike Duplicate	112	96										
890-2560-A-1-D MS	Matrix Spike	104	91										
890-2560-A-1-E MSD	Matrix Spike Duplicate	99	86										
890-2566-1	SW-57 (0-5)	104	78										
890-2566-2	SW-58 (0-5)	109	94										
890-2566-3	SW-59 (0-5)	114	91										
890-2566-4	SW-60 (0-5)	106	110										
890-2566-5	SW-61 (0-4)	124	92										
890-2566-6	SW-62 (0-4)	121	95										
890-2566-7	SW-63 (0-4)	124	91										
890-2566-8	SW-64 (0-5)	128	90										
890-2566-9	SW-65 (0-5)	119	104										
890-2566-10	SW-66 (0-2)	166 S1+	94										
890-2566-11	SW-67 (0-2)	123	90										
890-2566-12	SW-68 (0-2)	85	82										
890-2566-13	SW-69 (0-2)	139 S1+	90										
890-2566-14	SW-70 (0-5)	136 S1+	91										
890-2566-15	SW-71 (0-5)	49 S1-	93										
890-2566-16	SW-72 (0-5)	114	90										
890-2566-17	SW-73 (0-5)	116	83										
890-2566-18	SW-74 (0-5)	111	87										
890-2566-19	BH-58 (5)	116	76										
890-2566-20	BH-59 (2)	126	97										
890-2566-21	BH-60 (2)	112	105										
890-2566-22	BH-61 (2)	125	97										
890-2566-23	BH-62 (2)	130	96										
890-2566-24	BH-63 (2)	122	91										
890-2566-25	BH-64 (2)	122	90										
890-2566-26	BH-65 (2)	115	88										
890-2566-27	HD-1 (0-1)	117	97										
LCS 880-30180/1-A	Lab Control Sample	93	100										
LCS 880-30209/1-A	Lab Control Sample	116	93										
LCS 880-30210/1-A	Lab Control Sample	106	95										
LCSD 880-30180/2-A	Lab Control Sample Dup	91	104										
LCSD 880-30209/2-A	Lab Control Sample Dup	96	104										
LCSD 880-30210/2-A	Lab Control Sample Dup	111	95										
MB 880-30180/5-A	Method Blank	96	108										
MB 880-30209/5-A	Method Blank	101	104										
MB 880-30210/5-A	Method Blank	96	85										

Surrogate Legend

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

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

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)								
880-17086-A-11-C MS	Matrix Spike	87	85								
880-17086-A-11-D MSD	Matrix Spike Duplicate	88	87								
890-2566-1	SW-57 (0-5)	100	104								
890-2566-1 MS	SW-57 (0-5)	97	86								
890-2566-1 MSD	SW-57 (0-5)	82	86								
890-2566-2	SW-58 (0-5)	100	108								
890-2566-3	SW-59 (0-5)	111	119								
890-2566-4	SW-60 (0-5)	109	117								
890-2566-5	SW-61 (0-4)	110	120								
890-2566-6	SW-62 (0-4)	91	98								
890-2566-7	SW-63 (0-4)	101	112								
890-2566-8	SW-64 (0-5)	103	114								
890-2566-9	SW-65 (0-5)	100	112								
890-2566-10	SW-66 (0-2)	90	99								
890-2566-11	SW-67 (0-2)	95	104								
890-2566-12	SW-68 (0-2)	117	129								
890-2566-13	SW-69 (0-2)	97	107								
890-2566-14	SW-70 (0-5)	93	102								
890-2566-15	SW-71 (0-5)	102	112								
890-2566-16	SW-72 (0-5)	115	122								
890-2566-17	SW-73 (0-5)	92	102								
890-2566-18	SW-74 (0-5)	100	111								
890-2566-19	BH-58 (5)	104	114								
890-2566-20	BH-59 (2)	97	108								
890-2566-21	BH-60 (2)	106	121								
890-2566-22	BH-61 (2)	93	109								
890-2566-23	BH-62 (2)	98	111								
890-2566-24	BH-63 (2)	102	117								
890-2566-25	BH-64 (2)	99	112								
890-2566-26	BH-65 (2)	112	127								
890-2566-27	HD-1 (0-1)	94	108								
LCS 880-30079/2-A	Lab Control Sample	134 S1+	125								
LCS 880-30080/2-A	Lab Control Sample	150 S1+	149 S1+								
LCSD 880-30079/3-A	Lab Control Sample Dup	116	109								
LCSD 880-30080/3-A	Lab Control Sample Dup	114	115								
MB 880-30079/1-A	Method Blank	141 S1+	158 S1+								
MB 880-30080/1-A	Method Blank	141 S1+	168 S1+								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30180/5-A
Matrix: Solid
Analysis Batch: 30181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30180

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 19:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/20/22 16:33	07/20/22 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/20/22 16:33	07/20/22 19:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/20/22 16:33	07/20/22 19:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/20/22 16:33*	*07/20/22 19:22*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*07/20/22 16:33*	*07/20/22 19:22*	*1*

Lab Sample ID: LCS 880-30180/1-A
Matrix: Solid
Analysis Batch: 30181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30180

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1074		mg/Kg		107	70 - 130		
Toluene			0.100	0.09479		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09485		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1867		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-30180/2-A
Matrix: Solid
Analysis Batch: 30181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1103		mg/Kg		110	70 - 130	3	35
Toluene			0.100	0.09454		mg/Kg		95	70 - 130	0	35
Ethylbenzene			0.100	0.09283		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1816		mg/Kg		91	70 - 130	3	35
o-Xylene			0.100	0.09927		mg/Kg		99	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-2560-A-1-D MS
Matrix: Solid
Analysis Batch: 30181

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.0998	0.08133		mg/Kg		81	70 - 130		
Toluene	<0.00201	U	0.0998	0.08680		mg/Kg		86	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

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

Lab Sample ID: 890-2560-A-1-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30181 **Prep Batch: 30180**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.08779		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1753		mg/Kg		87	70 - 130
o-Xylene	<0.00201	U	0.0998	0.09524		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 890-2560-A-1-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30181 **Prep Batch: 30180**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.100	0.06414	F1	mg/Kg		64	70 - 130	24	35
Toluene	<0.00201	U	0.100	0.07224		mg/Kg		71	70 - 130	18	35
Ethylbenzene	<0.00201	U	0.100	0.07426		mg/Kg		74	70 - 130	17	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1438		mg/Kg		71	70 - 130	20	35
o-Xylene	<0.00201	U	0.100	0.07880		mg/Kg		79	70 - 130	19	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: MB 880-30209/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30192 **Prep Batch: 30209**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/21/22 09:27	07/21/22 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:27	07/21/22 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/21/22 09:27	07/21/22 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/21/22 09:27*	*07/21/22 11:20*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/21/22 09:27*	*07/21/22 11:20*	*1*

Lab Sample ID: LCS 880-30209/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30192 **Prep Batch: 30209**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08401		mg/Kg		84	70 - 130
Toluene			0.100	0.09906		mg/Kg		99	70 - 130
Ethylbenzene			0.100	0.1113		mg/Kg		111	70 - 130
m-Xylene & p-Xylene			0.200	0.2318		mg/Kg		116	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

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

Lab Sample ID: LCS 880-30209/1-A
Matrix: Solid
Analysis Batch: 30192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30209

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1269		mg/Kg		127	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-30209/2-A
Matrix: Solid
Analysis Batch: 30192

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30209

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1030		mg/Kg		103	70 - 130	20	35
Toluene			0.100	0.09343		mg/Kg		93	70 - 130	6	35
Ethylbenzene			0.100	0.09535		mg/Kg		95	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1889		mg/Kg		94	70 - 130	20	35
o-Xylene			0.100	0.1032		mg/Kg		103	70 - 130	21	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-16985-A-1-H MS
Matrix: Solid
Analysis Batch: 30192

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.0998	0.07821		mg/Kg		78	70 - 130		
Toluene	<0.00201	U	0.0998	0.09070		mg/Kg		91	70 - 130		
Ethylbenzene	<0.00201	U	0.0998	0.09555		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1898		mg/Kg		95	70 - 130		
o-Xylene	<0.00201	U	0.0998	0.1013		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 880-16985-A-1-I MSD
Matrix: Solid
Analysis Batch: 30192

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 30209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08560		mg/Kg		85	70 - 130	9	35
Toluene	<0.00201	U	0.100	0.09653		mg/Kg		96	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.100	0.1057		mg/Kg		105	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2190		mg/Kg		109	70 - 130	14	35
o-Xylene	<0.00201	U	0.100	0.1191		mg/Kg		119	70 - 130	16	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

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

Lab Sample ID: 880-16985-A-1-I MSD
Matrix: Solid
Analysis Batch: 30192

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 30209

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-30210/5-A
Matrix: Solid
Analysis Batch: 30194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30210

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/21/22 09:38	07/21/22 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/21/22 09:38	07/21/22 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/21/22 09:38	07/21/22 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/21/22 09:38	07/21/22 11:25	1
1,4-Difluorobenzene (Surr)	85		70 - 130	07/21/22 09:38	07/21/22 11:25	1

Lab Sample ID: LCS 880-30210/1-A
Matrix: Solid
Analysis Batch: 30194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09742		mg/Kg		97	70 - 130		
Toluene			0.100	0.09907		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1036		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2101		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1150		mg/Kg		115	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-30210/2-A
Matrix: Solid
Analysis Batch: 30194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30210

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1021		mg/Kg		102	70 - 130	5	35
Toluene			0.100	0.1030		mg/Kg		103	70 - 130	4	35
Ethylbenzene			0.100	0.1119		mg/Kg		112	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2241		mg/Kg		112	70 - 130	6	35
o-Xylene			0.100	0.1231		mg/Kg		123	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

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

Lab Sample ID: LCSD 880-30210/2-A
Matrix: Solid
Analysis Batch: 30194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30210

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

Lab Sample ID: 880-17129-A-12-E MS
Matrix: Solid
Analysis Batch: 30194

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.07628		mg/Kg		76	70 - 130
Toluene	<0.00200	U	0.100	0.09150		mg/Kg		80	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1027		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.0221		0.201	0.2128		mg/Kg		95	70 - 130
o-Xylene	0.00981		0.100	0.1154		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-17129-A-12-F MSD
Matrix: Solid
Analysis Batch: 30194

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 30210

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.09120		mg/Kg		91	70 - 130	18	35
Toluene	<0.00200	U	0.0998	0.09287		mg/Kg		82	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0998	0.09823		mg/Kg		98	70 - 130	4	35
m-Xylene & p-Xylene	0.0221		0.200	0.1979		mg/Kg		88	70 - 130	7	35
o-Xylene	0.00981		0.0998	0.1073		mg/Kg		98	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-30079/1-A
Matrix: Solid
Analysis Batch: 30098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30079

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		07/19/22 16:10	07/20/22 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/19/22 16:10	07/20/22 11:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/19/22 16:10	07/20/22 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	141	S1+	70 - 130	07/19/22 16:10	07/20/22 11:04	1
o-Terphenyl (Surr)	158	S1+	70 - 130	07/19/22 16:10	07/20/22 11:04	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

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

Lab Sample ID: LCS 880-30079/2-A
Matrix: Solid
Analysis Batch: 30098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30079

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			1000	1136		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	998.1		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*125*		*70 - 130*

Lab Sample ID: LCSD 880-30079/3-A
Matrix: Solid
Analysis Batch: 30098

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30079

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10			1000	972.8		mg/Kg		97	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	914.1		mg/Kg		91	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*116*		*70 - 130*
o-Terphenyl (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-2566-1 MS
Matrix: Solid
Analysis Batch: 30098

Client Sample ID: SW-57 (0-5)
Prep Type: Total/NA
Prep Batch: 30079

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10	<50.0	U F2	1000	928.5		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	735.9		mg/Kg		74	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*97*		*70 - 130*
o-Terphenyl (Surr)	*86*		*70 - 130*

Lab Sample ID: 890-2566-1 MSD
Matrix: Solid
Analysis Batch: 30098

Client Sample ID: SW-57 (0-5)
Prep Type: Total/NA
Prep Batch: 30079

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10	<50.0	U F2	999	1215	F2	mg/Kg		122	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	725.7		mg/Kg		73	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*82*		*70 - 130*
o-Terphenyl (Surr)	*86*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

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

Lab Sample ID: MB 880-30080/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30146 **Prep Batch: 30080**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/19/22 16:15	07/20/22 15:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/22 16:15	07/20/22 15:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/22 16:15	07/20/22 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*141*	*S1+*	*70 - 130*	*07/19/22 16:15*	*07/20/22 15:46*	*1*
o-Terphenyl (Surr)	*168*	*S1+*	*70 - 130*	*07/19/22 16:15*	*07/20/22 15:46*	*1*

Lab Sample ID: LCS 880-30080/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30146 **Prep Batch: 30080**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			1000	1334	*+	mg/Kg		133	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1530	*+	mg/Kg		153	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*150*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*149*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-30080/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30146 **Prep Batch: 30080**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10			1000	1032	*1	mg/Kg		103	70 - 130	26	20
Diesel Range Organics (Over C10-C28)			1000	1144	*1	mg/Kg		114	70 - 130	29	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*114*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-17086-A-11-C MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30146 **Prep Batch: 30080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10	<50.0	U *1 *+	1000	983.6		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	1000	843.1		mg/Kg		84	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*87*		*70 - 130*
o-Terphenyl (Surr)	*85*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

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

Lab Sample ID: 880-17086-A-11-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 30146 — **Prep Batch: 30080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10	<50.0	U *1 *+	999	989.4		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	999	863.0		mg/Kg		86	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*88*		*70 - 130*
o-Terphenyl (Surr)	*87*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30025/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 30182

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/21/22 01:09	1

Lab Sample ID: LCS 880-30025/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 30182

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	262.7		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-30025/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 30182

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-2566-12 MS — **Client Sample ID: SW-68 (0-2)**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 30182

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	33.6		249	289.7		mg/Kg		103	90 - 110		

Lab Sample ID: 890-2566-12 MSD — **Client Sample ID: SW-68 (0-2)**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 30182

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	33.6		249	291.5		mg/Kg		104	90 - 110	1	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2566-22 MS
Matrix: Solid
Analysis Batch: 30182

Client Sample ID: BH-61 (2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	347		249	582.3		mg/Kg		95	90 - 110

Lab Sample ID: 890-2566-22 MSD
Matrix: Solid
Analysis Batch: 30182

Client Sample ID: BH-61 (2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	347		249	586.7		mg/Kg		96	90 - 110	1	20

Lab Sample ID: MB 880-30021/1-A
Matrix: Solid
Analysis Batch: 30225

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/21/22 18:29	1

Lab Sample ID: LCS 880-30021/2-A
Matrix: Solid
Analysis Batch: 30225

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	257.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-30021/3-A
Matrix: Solid
Analysis Batch: 30225

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	257.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-2566-2 MS
Matrix: Solid
Analysis Batch: 30225

Client Sample ID: SW-58 (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	84.0		250	329.2		mg/Kg		98	90 - 110

Lab Sample ID: 890-2566-2 MSD
Matrix: Solid
Analysis Batch: 30225

Client Sample ID: SW-58 (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	84.0		250	329.1		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

GC VOA

Prep Batch: 30180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-2	SW-58 (0-5)	Total/NA	Solid	5035	
890-2566-3	SW-59 (0-5)	Total/NA	Solid	5035	
890-2566-4	SW-60 (0-5)	Total/NA	Solid	5035	
890-2566-5	SW-61 (0-4)	Total/NA	Solid	5035	
890-2566-6	SW-62 (0-4)	Total/NA	Solid	5035	
890-2566-7	SW-63 (0-4)	Total/NA	Solid	5035	
890-2566-8	SW-64 (0-5)	Total/NA	Solid	5035	
890-2566-9	SW-65 (0-5)	Total/NA	Solid	5035	
890-2566-10	SW-66 (0-2)	Total/NA	Solid	5035	
890-2566-11	SW-67 (0-2)	Total/NA	Solid	5035	
890-2566-12	SW-68 (0-2)	Total/NA	Solid	5035	
890-2566-13	SW-69 (0-2)	Total/NA	Solid	5035	
890-2566-14	SW-70 (0-5)	Total/NA	Solid	5035	
890-2566-15	SW-71 (0-5)	Total/NA	Solid	5035	
MB 880-30180/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30180/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30180/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2560-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2560-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-2	SW-58 (0-5)	Total/NA	Solid	8021B	30180
890-2566-3	SW-59 (0-5)	Total/NA	Solid	8021B	30180
890-2566-4	SW-60 (0-5)	Total/NA	Solid	8021B	30180
890-2566-5	SW-61 (0-4)	Total/NA	Solid	8021B	30180
890-2566-6	SW-62 (0-4)	Total/NA	Solid	8021B	30180
890-2566-7	SW-63 (0-4)	Total/NA	Solid	8021B	30180
890-2566-8	SW-64 (0-5)	Total/NA	Solid	8021B	30180
890-2566-9	SW-65 (0-5)	Total/NA	Solid	8021B	30180
890-2566-10	SW-66 (0-2)	Total/NA	Solid	8021B	30180
890-2566-11	SW-67 (0-2)	Total/NA	Solid	8021B	30180
890-2566-12	SW-68 (0-2)	Total/NA	Solid	8021B	30180
890-2566-13	SW-69 (0-2)	Total/NA	Solid	8021B	30180
890-2566-14	SW-70 (0-5)	Total/NA	Solid	8021B	30180
890-2566-15	SW-71 (0-5)	Total/NA	Solid	8021B	30180
MB 880-30180/5-A	Method Blank	Total/NA	Solid	8021B	30180
LCS 880-30180/1-A	Lab Control Sample	Total/NA	Solid	8021B	30180
LCSD 880-30180/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30180
890-2560-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	30180
890-2560-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30180

Analysis Batch: 30192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-20	BH-59 (2)	Total/NA	Solid	8021B	30209
890-2566-21	BH-60 (2)	Total/NA	Solid	8021B	30209
890-2566-22	BH-61 (2)	Total/NA	Solid	8021B	30209
890-2566-23	BH-62 (2)	Total/NA	Solid	8021B	30209
890-2566-24	BH-63 (2)	Total/NA	Solid	8021B	30209
890-2566-25	BH-64 (2)	Total/NA	Solid	8021B	30209
890-2566-26	BH-65 (2)	Total/NA	Solid	8021B	30209

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

GC VOA (Continued)

Analysis Batch: 30192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-27	HD-1 (0-1)	Total/NA	Solid	8021B	30209
MB 880-30209/5-A	Method Blank	Total/NA	Solid	8021B	30209
LCS 880-30209/1-A	Lab Control Sample	Total/NA	Solid	8021B	30209
LCSD 880-30209/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30209
880-16985-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	30209
880-16985-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30209

Analysis Batch: 30194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-16	SW-72 (0-5)	Total/NA	Solid	8021B	30210
890-2566-17	SW-73 (0-5)	Total/NA	Solid	8021B	30210
890-2566-18	SW-74 (0-5)	Total/NA	Solid	8021B	30210
890-2566-19	BH-58 (5)	Total/NA	Solid	8021B	30210
MB 880-30210/5-A	Method Blank	Total/NA	Solid	8021B	30210
LCS 880-30210/1-A	Lab Control Sample	Total/NA	Solid	8021B	30210
LCSD 880-30210/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30210
880-17129-A-12-E MS	Matrix Spike	Total/NA	Solid	8021B	30210
880-17129-A-12-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30210

Prep Batch: 30209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-20	BH-59 (2)	Total/NA	Solid	5035	
890-2566-21	BH-60 (2)	Total/NA	Solid	5035	
890-2566-22	BH-61 (2)	Total/NA	Solid	5035	
890-2566-23	BH-62 (2)	Total/NA	Solid	5035	
890-2566-24	BH-63 (2)	Total/NA	Solid	5035	
890-2566-25	BH-64 (2)	Total/NA	Solid	5035	
890-2566-26	BH-65 (2)	Total/NA	Solid	5035	
890-2566-27	HD-1 (0-1)	Total/NA	Solid	5035	
MB 880-30209/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30209/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30209/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16985-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-16985-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 30210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-16	SW-72 (0-5)	Total/NA	Solid	5035	
890-2566-17	SW-73 (0-5)	Total/NA	Solid	5035	
890-2566-18	SW-74 (0-5)	Total/NA	Solid	5035	
890-2566-19	BH-58 (5)	Total/NA	Solid	5035	
MB 880-30210/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30210/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30210/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17129-A-12-E MS	Matrix Spike	Total/NA	Solid	5035	
880-17129-A-12-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-1	SW-57 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-2	SW-58 (0-5)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

GC VOA (Continued)

Analysis Batch: 30223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-3	SW-59 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-4	SW-60 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-5	SW-61 (0-4)	Total/NA	Solid	Total BTEX	
890-2566-6	SW-62 (0-4)	Total/NA	Solid	Total BTEX	
890-2566-7	SW-63 (0-4)	Total/NA	Solid	Total BTEX	
890-2566-8	SW-64 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-9	SW-65 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-10	SW-66 (0-2)	Total/NA	Solid	Total BTEX	
890-2566-11	SW-67 (0-2)	Total/NA	Solid	Total BTEX	
890-2566-12	SW-68 (0-2)	Total/NA	Solid	Total BTEX	
890-2566-13	SW-69 (0-2)	Total/NA	Solid	Total BTEX	
890-2566-14	SW-70 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-15	SW-71 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-16	SW-72 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-17	SW-73 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-18	SW-74 (0-5)	Total/NA	Solid	Total BTEX	
890-2566-19	BH-58 (5)	Total/NA	Solid	Total BTEX	
890-2566-20	BH-59 (2)	Total/NA	Solid	Total BTEX	
890-2566-21	BH-60 (2)	Total/NA	Solid	Total BTEX	
890-2566-22	BH-61 (2)	Total/NA	Solid	Total BTEX	
890-2566-23	BH-62 (2)	Total/NA	Solid	Total BTEX	
890-2566-24	BH-63 (2)	Total/NA	Solid	Total BTEX	
890-2566-25	BH-64 (2)	Total/NA	Solid	Total BTEX	
890-2566-26	BH-65 (2)	Total/NA	Solid	Total BTEX	
890-2566-27	HD-1 (0-1)	Total/NA	Solid	Total BTEX	

Prep Batch: 30361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-1	SW-57 (0-5)	Total/NA	Solid	5035	

Analysis Batch: 30473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-1	SW-57 (0-5)	Total/NA	Solid	8021B	30361

GC Semi VOA

Prep Batch: 30079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-1	SW-57 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-2	SW-58 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-3	SW-59 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-4	SW-60 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-5	SW-61 (0-4)	Total/NA	Solid	8015NM Prep	
890-2566-6	SW-62 (0-4)	Total/NA	Solid	8015NM Prep	
890-2566-7	SW-63 (0-4)	Total/NA	Solid	8015NM Prep	
890-2566-8	SW-64 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-9	SW-65 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-10	SW-66 (0-2)	Total/NA	Solid	8015NM Prep	
890-2566-11	SW-67 (0-2)	Total/NA	Solid	8015NM Prep	
890-2566-12	SW-68 (0-2)	Total/NA	Solid	8015NM Prep	
890-2566-13	SW-69 (0-2)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

GC Semi VOA (Continued)

Prep Batch: 30079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-14	SW-70 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-15	SW-71 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-16	SW-72 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-17	SW-73 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-18	SW-74 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-19	BH-58 (5)	Total/NA	Solid	8015NM Prep	
890-2566-20	BH-59 (2)	Total/NA	Solid	8015NM Prep	
MB 880-30079/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30079/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30079/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2566-1 MS	SW-57 (0-5)	Total/NA	Solid	8015NM Prep	
890-2566-1 MSD	SW-57 (0-5)	Total/NA	Solid	8015NM Prep	

Prep Batch: 30080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-21	BH-60 (2)	Total/NA	Solid	8015NM Prep	
890-2566-22	BH-61 (2)	Total/NA	Solid	8015NM Prep	
890-2566-23	BH-62 (2)	Total/NA	Solid	8015NM Prep	
890-2566-24	BH-63 (2)	Total/NA	Solid	8015NM Prep	
890-2566-25	BH-64 (2)	Total/NA	Solid	8015NM Prep	
890-2566-26	BH-65 (2)	Total/NA	Solid	8015NM Prep	
890-2566-27	HD-1 (0-1)	Total/NA	Solid	8015NM Prep	
MB 880-30080/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30080/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30080/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17086-A-11-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17086-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-1	SW-57 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-2	SW-58 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-3	SW-59 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-4	SW-60 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-5	SW-61 (0-4)	Total/NA	Solid	8015B NM	30079
890-2566-6	SW-62 (0-4)	Total/NA	Solid	8015B NM	30079
890-2566-7	SW-63 (0-4)	Total/NA	Solid	8015B NM	30079
890-2566-8	SW-64 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-9	SW-65 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-10	SW-66 (0-2)	Total/NA	Solid	8015B NM	30079
890-2566-11	SW-67 (0-2)	Total/NA	Solid	8015B NM	30079
890-2566-12	SW-68 (0-2)	Total/NA	Solid	8015B NM	30079
890-2566-13	SW-69 (0-2)	Total/NA	Solid	8015B NM	30079
890-2566-14	SW-70 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-15	SW-71 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-16	SW-72 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-17	SW-73 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-18	SW-74 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-19	BH-58 (5)	Total/NA	Solid	8015B NM	30079
890-2566-20	BH-59 (2)	Total/NA	Solid	8015B NM	30079
MB 880-30079/1-A	Method Blank	Total/NA	Solid	8015B NM	30079

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

GC Semi VOA (Continued)

Analysis Batch: 30098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-30079/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30079
LCSD 880-30079/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30079
890-2566-1 MS	SW-57 (0-5)	Total/NA	Solid	8015B NM	30079
890-2566-1 MSD	SW-57 (0-5)	Total/NA	Solid	8015B NM	30079

Analysis Batch: 30146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-21	BH-60 (2)	Total/NA	Solid	8015B NM	30080
890-2566-22	BH-61 (2)	Total/NA	Solid	8015B NM	30080
890-2566-23	BH-62 (2)	Total/NA	Solid	8015B NM	30080
890-2566-24	BH-63 (2)	Total/NA	Solid	8015B NM	30080
890-2566-25	BH-64 (2)	Total/NA	Solid	8015B NM	30080
890-2566-26	BH-65 (2)	Total/NA	Solid	8015B NM	30080
890-2566-27	HD-1 (0-1)	Total/NA	Solid	8015B NM	30080
MB 880-30080/1-A	Method Blank	Total/NA	Solid	8015B NM	30080
LCS 880-30080/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30080
LCSD 880-30080/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30080
880-17086-A-11-C MS	Matrix Spike	Total/NA	Solid	8015B NM	30080
880-17086-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	30080

Analysis Batch: 30253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-1	SW-57 (0-5)	Total/NA	Solid	8015 NM	
890-2566-2	SW-58 (0-5)	Total/NA	Solid	8015 NM	
890-2566-3	SW-59 (0-5)	Total/NA	Solid	8015 NM	
890-2566-4	SW-60 (0-5)	Total/NA	Solid	8015 NM	
890-2566-5	SW-61 (0-4)	Total/NA	Solid	8015 NM	
890-2566-6	SW-62 (0-4)	Total/NA	Solid	8015 NM	
890-2566-7	SW-63 (0-4)	Total/NA	Solid	8015 NM	
890-2566-8	SW-64 (0-5)	Total/NA	Solid	8015 NM	
890-2566-9	SW-65 (0-5)	Total/NA	Solid	8015 NM	
890-2566-10	SW-66 (0-2)	Total/NA	Solid	8015 NM	
890-2566-11	SW-67 (0-2)	Total/NA	Solid	8015 NM	
890-2566-12	SW-68 (0-2)	Total/NA	Solid	8015 NM	
890-2566-13	SW-69 (0-2)	Total/NA	Solid	8015 NM	
890-2566-14	SW-70 (0-5)	Total/NA	Solid	8015 NM	
890-2566-15	SW-71 (0-5)	Total/NA	Solid	8015 NM	
890-2566-16	SW-72 (0-5)	Total/NA	Solid	8015 NM	
890-2566-17	SW-73 (0-5)	Total/NA	Solid	8015 NM	
890-2566-18	SW-74 (0-5)	Total/NA	Solid	8015 NM	
890-2566-19	BH-58 (5)	Total/NA	Solid	8015 NM	
890-2566-20	BH-59 (2)	Total/NA	Solid	8015 NM	
890-2566-21	BH-60 (2)	Total/NA	Solid	8015 NM	
890-2566-22	BH-61 (2)	Total/NA	Solid	8015 NM	
890-2566-23	BH-62 (2)	Total/NA	Solid	8015 NM	
890-2566-24	BH-63 (2)	Total/NA	Solid	8015 NM	
890-2566-25	BH-64 (2)	Total/NA	Solid	8015 NM	
890-2566-26	BH-65 (2)	Total/NA	Solid	8015 NM	
890-2566-27	HD-1 (0-1)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

HPLC/IC

Leach Batch: 30021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-1	SW-57 (0-5)	Soluble	Solid	DI Leach	
890-2566-2	SW-58 (0-5)	Soluble	Solid	DI Leach	
890-2566-3	SW-59 (0-5)	Soluble	Solid	DI Leach	
890-2566-4	SW-60 (0-5)	Soluble	Solid	DI Leach	
890-2566-5	SW-61 (0-4)	Soluble	Solid	DI Leach	
890-2566-6	SW-62 (0-4)	Soluble	Solid	DI Leach	
890-2566-7	SW-63 (0-4)	Soluble	Solid	DI Leach	
890-2566-8	SW-64 (0-5)	Soluble	Solid	DI Leach	
890-2566-9	SW-65 (0-5)	Soluble	Solid	DI Leach	
890-2566-10	SW-66 (0-2)	Soluble	Solid	DI Leach	
890-2566-11	SW-67 (0-2)	Soluble	Solid	DI Leach	
MB 880-30021/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30021/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30021/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2566-2 MS	SW-58 (0-5)	Soluble	Solid	DI Leach	
890-2566-2 MSD	SW-58 (0-5)	Soluble	Solid	DI Leach	

Leach Batch: 30025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-12	SW-68 (0-2)	Soluble	Solid	DI Leach	
890-2566-13	SW-69 (0-2)	Soluble	Solid	DI Leach	
890-2566-14	SW-70 (0-5)	Soluble	Solid	DI Leach	
890-2566-15	SW-71 (0-5)	Soluble	Solid	DI Leach	
890-2566-16	SW-72 (0-5)	Soluble	Solid	DI Leach	
890-2566-17	SW-73 (0-5)	Soluble	Solid	DI Leach	
890-2566-18	SW-74 (0-5)	Soluble	Solid	DI Leach	
890-2566-19	BH-58 (5)	Soluble	Solid	DI Leach	
890-2566-20	BH-59 (2)	Soluble	Solid	DI Leach	
890-2566-21	BH-60 (2)	Soluble	Solid	DI Leach	
890-2566-22	BH-61 (2)	Soluble	Solid	DI Leach	
890-2566-23	BH-62 (2)	Soluble	Solid	DI Leach	
890-2566-24	BH-63 (2)	Soluble	Solid	DI Leach	
890-2566-25	BH-64 (2)	Soluble	Solid	DI Leach	
890-2566-26	BH-65 (2)	Soluble	Solid	DI Leach	
890-2566-27	HD-1 (0-1)	Soluble	Solid	DI Leach	
MB 880-30025/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30025/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30025/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2566-12 MS	SW-68 (0-2)	Soluble	Solid	DI Leach	
890-2566-12 MSD	SW-68 (0-2)	Soluble	Solid	DI Leach	
890-2566-22 MS	BH-61 (2)	Soluble	Solid	DI Leach	
890-2566-22 MSD	BH-61 (2)	Soluble	Solid	DI Leach	

Analysis Batch: 30182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-12	SW-68 (0-2)	Soluble	Solid	300.0	30025
890-2566-13	SW-69 (0-2)	Soluble	Solid	300.0	30025
890-2566-14	SW-70 (0-5)	Soluble	Solid	300.0	30025
890-2566-15	SW-71 (0-5)	Soluble	Solid	300.0	30025
890-2566-16	SW-72 (0-5)	Soluble	Solid	300.0	30025
890-2566-17	SW-73 (0-5)	Soluble	Solid	300.0	30025

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

HPLC/IC (Continued)

Analysis Batch: 30182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-18	SW-74 (0-5)	Soluble	Solid	300.0	30025
890-2566-19	BH-58 (5)	Soluble	Solid	300.0	30025
890-2566-20	BH-59 (2)	Soluble	Solid	300.0	30025
890-2566-21	BH-60 (2)	Soluble	Solid	300.0	30025
890-2566-22	BH-61 (2)	Soluble	Solid	300.0	30025
890-2566-23	BH-62 (2)	Soluble	Solid	300.0	30025
890-2566-24	BH-63 (2)	Soluble	Solid	300.0	30025
890-2566-25	BH-64 (2)	Soluble	Solid	300.0	30025
890-2566-26	BH-65 (2)	Soluble	Solid	300.0	30025
890-2566-27	HD-1 (0-1)	Soluble	Solid	300.0	30025
MB 880-30025/1-A	Method Blank	Soluble	Solid	300.0	30025
LCS 880-30025/2-A	Lab Control Sample	Soluble	Solid	300.0	30025
LCSD 880-30025/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30025
890-2566-12 MS	SW-68 (0-2)	Soluble	Solid	300.0	30025
890-2566-12 MSD	SW-68 (0-2)	Soluble	Solid	300.0	30025
890-2566-22 MS	BH-61 (2)	Soluble	Solid	300.0	30025
890-2566-22 MSD	BH-61 (2)	Soluble	Solid	300.0	30025

Analysis Batch: 30225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2566-1	SW-57 (0-5)	Soluble	Solid	300.0	30021
890-2566-2	SW-58 (0-5)	Soluble	Solid	300.0	30021
890-2566-3	SW-59 (0-5)	Soluble	Solid	300.0	30021
890-2566-4	SW-60 (0-5)	Soluble	Solid	300.0	30021
890-2566-5	SW-61 (0-4)	Soluble	Solid	300.0	30021
890-2566-6	SW-62 (0-4)	Soluble	Solid	300.0	30021
890-2566-7	SW-63 (0-4)	Soluble	Solid	300.0	30021
890-2566-8	SW-64 (0-5)	Soluble	Solid	300.0	30021
890-2566-9	SW-65 (0-5)	Soluble	Solid	300.0	30021
890-2566-10	SW-66 (0-2)	Soluble	Solid	300.0	30021
890-2566-11	SW-67 (0-2)	Soluble	Solid	300.0	30021
MB 880-30021/1-A	Method Blank	Soluble	Solid	300.0	30021
LCS 880-30021/2-A	Lab Control Sample	Soluble	Solid	300.0	30021
LCSD 880-30021/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30021
890-2566-2 MS	SW-58 (0-5)	Soluble	Solid	300.0	30021
890-2566-2 MSD	SW-58 (0-5)	Soluble	Solid	300.0	30021

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-57 (0-5)

Lab Sample ID: 890-2566-1
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53

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	30361	07/22/22 10:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30473	07/24/22 09:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 12:07	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/21/22 20:57	SMC	XEN MID

Client Sample ID: SW-58 (0-5)

Lab Sample ID: 890-2566-2
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/20/22 21:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 13:12	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/21/22 21:06	SMC	XEN MID

Client Sample ID: SW-59 (0-5)

Lab Sample ID: 890-2566-3
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/20/22 22:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 13:32	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/21/22 21:34	SMC	XEN MID

Client Sample ID: SW-60 (0-5)

Lab Sample ID: 890-2566-4
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/20/22 22:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-60 (0-5)

Lab Sample ID: 890-2566-4
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53

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			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 13:54	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/21/22 21:43	SMC	XEN MID

Client Sample ID: SW-61 (0-4)

Lab Sample ID: 890-2566-5
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/20/22 22:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 14:16	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/21/22 22:11	SMC	XEN MID

Client Sample ID: SW-62 (0-4)

Lab Sample ID: 890-2566-6
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 00:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 14:37	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/21/22 22:20	SMC	XEN MID

Client Sample ID: SW-63 (0-4)

Lab Sample ID: 890-2566-7
Matrix: Solid
Date Collected: 07/14/22 00:00
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 00:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 14:59	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-63 (0-4) Lab Sample ID: 890-2566-7

Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/21/22 22:29	SMC	XEN MID

Client Sample ID: SW-64 (0-5) Lab Sample ID: 890-2566-8

Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 00:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 15:21	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/22/22 07:36	SMC	XEN MID

Client Sample ID: SW-65 (0-5) Lab Sample ID: 890-2566-9

Date Collected: 07/14/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 01:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 15:41	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/22/22 07:45	SMC	XEN MID

Client Sample ID: SW-66 (0-2) Lab Sample ID: 890-2566-10

Date Collected: 07/13/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 01:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 16:03	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/22/22 07:55	SMC	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: SW-67 (0-2)

Lab Sample ID: 890-2566-11
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 01:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 16:46	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30021	07/19/22 08:55	KS	XEN MID
Soluble	Analysis	300.0		1			30225	07/22/22 08:04	SMC	XEN MID

Client Sample ID: SW-68 (0-2)

Lab Sample ID: 890-2566-12
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 02:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 17:07	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 01:36	CH	XEN MID

Client Sample ID: SW-69 (0-2)

Lab Sample ID: 890-2566-13
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 02:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 17:29	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 02:04	CH	XEN MID

Client Sample ID: SW-70 (0-5)

Lab Sample ID: 890-2566-14
Matrix: Solid
Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 03:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-70 (0-5) Lab Sample ID: 890-2566-14

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

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			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 17:49	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 02:13	CH	XEN MID

Client Sample ID: SW-71 (0-5) Lab Sample ID: 890-2566-15

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

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	30180	07/20/22 16:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30181	07/21/22 03:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 18:11	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 02:23	CH	XEN MID

Client Sample ID: SW-72 (0-5) Lab Sample ID: 890-2566-16

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	30210	07/21/22 09:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30194	07/21/22 12:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 18:32	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 02:32	CH	XEN MID

Client Sample ID: SW-73 (0-5) Lab Sample ID: 890-2566-17

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

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	30210	07/21/22 09:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30194	07/21/22 12:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 18:54	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

Client Sample ID: SW-73 (0-5) Lab Sample ID: 890-2566-17

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 02:59	CH	XEN MID

Client Sample ID: SW-74 (0-5) Lab Sample ID: 890-2566-18

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

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	30210	07/21/22 09:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30194	07/21/22 12:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 19:15	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 03:09	CH	XEN MID

Client Sample ID: BH-58 (5) Lab Sample ID: 890-2566-19

Date Collected: 07/15/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	30210	07/21/22 09:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30194	07/21/22 13:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 19:37	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 03:18	CH	XEN MID

Client Sample ID: BH-59 (2) Lab Sample ID: 890-2566-20

Date Collected: 07/13/22 00:00 **Matrix: Solid**
Date Received: 07/15/22 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	30209	07/21/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30192	07/21/22 12:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30079	07/19/22 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30098	07/20/22 19:58	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 03:27	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: BH-60 (2)

Lab Sample ID: 890-2566-21
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53

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	30209	07/21/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30192	07/21/22 12:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30080	07/19/22 16:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30146	07/20/22 19:26	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 03:36	CH	XEN MID

Client Sample ID: BH-61 (2)

Lab Sample ID: 890-2566-22
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53

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	30209	07/21/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30192	07/21/22 12:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30080	07/19/22 16:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30146	07/20/22 19:48	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 03:45	CH	XEN MID

Client Sample ID: BH-62 (2)

Lab Sample ID: 890-2566-23
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53

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	30209	07/21/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30192	07/21/22 13:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30080	07/19/22 16:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30146	07/20/22 20:09	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 04:13	CH	XEN MID

Client Sample ID: BH-63 (2)

Lab Sample ID: 890-2566-24
Matrix: Solid
Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53

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	30209	07/21/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30192	07/21/22 13:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Client Sample ID: BH-63 (2)

Lab Sample ID: 890-2566-24

Date Collected: 07/13/22 00:00
Date Received: 07/15/22 16:53

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			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30080	07/19/22 16:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30146	07/20/22 20:32	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 04:22	CH	XEN MID

Client Sample ID: BH-64 (2)

Lab Sample ID: 890-2566-25

Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53

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	30209	07/21/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30192	07/21/22 13:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30080	07/19/22 16:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30146	07/20/22 20:54	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		5			30182	07/21/22 04:50	CH	XEN MID

Client Sample ID: BH-65 (2)

Lab Sample ID: 890-2566-26

Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53

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	30209	07/21/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30192	07/21/22 16:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30080	07/19/22 16:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30146	07/20/22 21:39	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 04:59	CH	XEN MID

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

Lab Sample ID: 890-2566-27

Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53

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	30209	07/21/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30192	07/21/22 16:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30223	07/21/22 10:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30253	07/21/22 12:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30080	07/19/22 16:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30146	07/20/22 22:00	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

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

Date Collected: 07/15/22 00:00
Date Received: 07/15/22 16:53

Lab Sample ID: 890-2566-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	30025	07/19/22 08:58	KS	XEN MID
Soluble	Analysis	300.0		1			30182	07/21/22 05:08	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

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. Job ID: 890-2566-1
Project/Site: Palmilla to St HU Line SDG: 212C-MD-02473

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Palmilla to St HU Line

Job ID: 890-2566-1
SDG: 212C-MD-02473

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2566-1	SW-57 (0-5)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 5
890-2566-2	SW-58 (0-5)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 5
890-2566-3	SW-59 (0-5)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 5
890-2566-4	SW-60 (0-5)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 5
890-2566-5	SW-61 (0-4)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 4
890-2566-6	SW-62 (0-4)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 4
890-2566-7	SW-63 (0-4)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 4
890-2566-8	SW-64 (0-5)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 5
890-2566-9	SW-65 (0-5)	Solid	07/14/22 00:00	07/15/22 16:53	0 - 5
890-2566-10	SW-66 (0-2)	Solid	07/13/22 00:00	07/15/22 16:53	0 - 2
890-2566-11	SW-67 (0-2)	Solid	07/13/22 00:00	07/15/22 16:53	0 - 2
890-2566-12	SW-68 (0-2)	Solid	07/13/22 00:00	07/15/22 16:53	0 - 2
890-2566-13	SW-69 (0-2)	Solid	07/13/22 00:00	07/15/22 16:53	0 - 2
890-2566-14	SW-70 (0-5)	Solid	07/15/22 00:00	07/15/22 16:53	0 - 5
890-2566-15	SW-71 (0-5)	Solid	07/15/22 00:00	07/15/22 16:53	0 - 5
890-2566-16	SW-72 (0-5)	Solid	07/15/22 00:00	07/15/22 16:53	0 - 5
890-2566-17	SW-73 (0-5)	Solid	07/15/22 00:00	07/15/22 16:53	0 - 5
890-2566-18	SW-74 (0-5)	Solid	07/15/22 00:00	07/15/22 16:53	0 - 5
890-2566-19	BH-58 (5)	Solid	07/15/22 00:00	07/15/22 16:53	5
890-2566-20	BH-59 (2)	Solid	07/13/22 00:00	07/15/22 16:53	2
890-2566-21	BH-60 (2)	Solid	07/13/22 00:00	07/15/22 16:53	2
890-2566-22	BH-61 (2)	Solid	07/13/22 00:00	07/15/22 16:53	2
890-2566-23	BH-62 (2)	Solid	07/13/22 00:00	07/15/22 16:53	2
890-2566-24	BH-63 (2)	Solid	07/13/22 00:00	07/15/22 16:53	2
890-2566-25	BH-64 (2)	Solid	07/15/22 00:00	07/15/22 16:53	2
890-2566-26	BH-65 (2)	Solid	07/15/22 00:00	07/15/22 16:53	2
890-2566-27	HD-1 (0-1)	Solid	07/15/22 00:00	07/15/22 16:53	0 - 1

Page 531 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

890-2566 Chain of Custody

Client Name: Solaris	Site Manager: Brittany Long
Project Name: Palmilla to St HU Line	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	Sampler Signature: Peyton Oliver
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	TIME	MATRIX WATER	SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	None	# CONTAINERS	FILTERED (Y/N)	ANALYSIS: BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	SW-57 (0-5')	7/14/2022			X			X				X			X												X				
	SW-58 (0-5')	7/14/2022			X			X				X			X												X				
	SW-59 (0-5')	7/14/2022			X			X				X			X												X				
	SW-60 (0-5')	7/14/2022			X			X				X			X												X				
	SW-61 (0-4')	7/14/2022			X			X				X			X												X				
	SW-62 (0-4')	7/14/2022			X			X				X			X												X				
	SW-63 (0-4')	7/14/2022			X			X				X			X												X				
	SW-64 (0-5')	7/14/2022			X			X				X			X												X				
	SW-65 (0-5')	7/14/2022			X			X				X			X												X				
	SW-66 (0-2')	7/13/2022			X			X				X			X												X				

Relinquished by:	Date: 7/15/22	Time: 1653	Received by: Date: 7.15.22 Time: 1653
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
5.2
5.0
T-NM-007

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

-0.2

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

7/26/2022

Page 532 of 703

Analysis Request of Chain of Custody Record

7/26/2022

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Palmilla to St HU Line	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Peyton Oliver
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	SW-67 (0-2')	7/13/2022			X			X				X			X												X				
	SW-68 (0-2')	7/13/2022			X			X				X			X												X				
	SW-69 (0-2')	7/13/2022			X			X				X			X												X				
	SW-70 (0-5')	7/15/2022			X			X				X			X												X				
	SW-71 (0-5')	7/15/2022			X			X				X			X												X				
	SW-72 (0-5')	7/15/2022			X			X				X			X												X				
	SW-73 (0-5')	7/15/2022			X			X				X			X												X				
	SW-74 (0-5')	7/15/2022			X			X				X			X												X				
	BH-58 (5')	7/15/2022			X			X				X			X												X				
	BH-59 (2')	7/13/2022			X			X				X			X												X				

Relinquished by:	Date: 7/15/22	Time: 1653	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 59 of 62

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 533 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Brittany Long
Project Name: Palmilla to St HU Line	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	Sampler Signature: Peyton Oliver
Comments:	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-60 (2')	7/13/2022			X			X				X		X													X				
	BH-61 (2')	7/13/2022			X			X				X		X													X				
	BH-62 (2')	7/13/2022			X			X				X		X													X				
	BH-63 (2')	7/13/2022			X			X				X		X													X				
	BH-64 (5')	7/15/2022			X			X				X		X													X				
	BH-65 (5')	7/15/2022			X			X				X		X													X				
	HD-1 (0-1')	7/15/2022			X			X				X		X													X				

Relinquished by:	Date: 7/15/22	Time: 1653	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

7/26/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2566-1
SDG Number: 212C-MD-02473

Login Number: 2566
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2566-1
SDG Number: 212C-MD-02473

Login Number: 2566
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/19/22 11:13 AM

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

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-2642-1
Laboratory Sample Delivery Group: Eddy County NM
Client Project/Site: Solaris -

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

Attn: Brittany Long

JKramer

Authorized for release by:
8/4/2022 10:53:45 AM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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: Solaris -

Laboratory Job ID: 890-2642-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 6
Surrogate Summary 50
QC Sample Results 54
QC Association Summary 72
Lab Chronicle 85
Certification Summary 102
Method Summary 103
Sample Summary 104
Chain of Custody 106
Receipt Checklists 112

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.

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: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Job ID: 890-2642-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2642-1

Receipt
The samples were received on 7/22/2022 5:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-30914 and analytical batch 880-31149 was outside control limits. Sample matrix interference is suspected.

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-31030 and analytical batch 880-31193 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-31170 and analytical batch 880-31148 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-87 (0-4') (890-2642-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (890-2642-A-51-C MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-17512-A-1-D MS) and (880-17512-A-1-E MSD). 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: (880-17512-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Due to the high concentration of Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 880-31023 and analytical batch 880-31193 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31195 and analytical batch 880-31376 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 sample was outside control limits: BH-52 (5') (890-2642-32). 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-53 (5') (890-2642-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-89 (0-4') (890-2642-24), SW-90 (0-4') (890-2642-25), SW-91 (0-4') (890-2642-26), SW-92 (0-4') (890-2642-27), SW-93 (0-4') (890-2642-28), BH-49 (5') (890-2642-29) and BH-50 (5') (890-2642-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Job ID: 890-2642-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-52 (5') (890-2642-32). 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-55 (5') (890-2642-35), BH-56 (5') (890-2642-36), BH-57 (5') (890-2642-37), BH-65 (1') (890-2642-38), BH-66 (1') (890-2642-39) and BH-67 (1') (890-2642-40). 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) precision for preparation batch 880-30935 and analytical batch 880-31087 was outside control limits. Sample non-homogeneity is suspected.

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. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-46 (0-5') Lab Sample ID: 890-2642-1

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 11:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 11:25	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		08/01/22 13:58	08/03/22 11:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 11:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 11:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/01/22 13:58*	*08/03/22 11:25*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/01/22 13:58*	*08/03/22 11:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 10:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 10:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*07/28/22 13:35*	*07/29/22 10:21*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*07/28/22 13:35*	*07/29/22 10:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.4**		5.00		mg/Kg			07/30/22 09:22	1

Client Sample ID: SW-47 (0-5') Lab Sample ID: 890-2642-2

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 13:58	08/03/22 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 13:58	08/03/22 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/01/22 13:58*	*08/03/22 11:46*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*08/01/22 13:58*	*08/03/22 11:46*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-47 (0-5')
Lab Sample ID: 890-2642-2
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 11:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 11:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*07/28/22 13:35*	*07/29/22 11:25*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*07/28/22 13:35*	*07/29/22 11:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.4**		4.99		mg/Kg			07/30/22 09:49	1

Client Sample ID: SW-48 (0-5')
Lab Sample ID: 890-2642-3
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 12:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 12:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 12:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 12:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 12:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*08/01/22 13:58*	*08/03/22 12:07*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/01/22 13:58*	*08/03/22 12:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 11:48	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-48 (0-5') Lab Sample ID: 890-2642-3

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 11:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*0*	*S1-*	*70 - 130*	*07/28/22 13:35*	*07/29/22 11:48*	*1*
o-Terphenyl (Surr)	*0*	*S1-*	*70 - 130*	*07/28/22 13:35*	*07/29/22 11:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**183**		4.95		mg/Kg			07/30/22 09:59	1

Client Sample ID: SW-49 (0-5') Lab Sample ID: 890-2642-4

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 12:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 12:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 12:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 12:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 12:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/01/22 13:58*	*08/03/22 12:27*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*08/01/22 13:58*	*08/03/22 12:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		07/28/22 13:35	07/29/22 12:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/28/22 13:35	07/29/22 12:48	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/28/22 13:35	07/29/22 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*07/28/22 13:35*	*07/29/22 12:48*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*07/28/22 13:35*	*07/29/22 12:48*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-49 (0-5') Lab Sample ID: 890-2642-4

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		4.98		mg/Kg			07/30/22 10:08	1

Client Sample ID: SW-50 (0-5') Lab Sample ID: 890-2642-5

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 12:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 12:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 12:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/01/22 13:58	08/03/22 12:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 12:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/22 13:58	08/03/22 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/01/22 13:58*	*08/03/22 12:48*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*08/01/22 13:58*	*08/03/22 12:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 13:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*07/28/22 13:35*	*07/29/22 13:10*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*07/28/22 13:35*	*07/29/22 13:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		5.05		mg/Kg			07/30/22 10:17	1

Client Sample ID: SW-51 (0-5') Lab Sample ID: 890-2642-6

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 13:09	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-51 (0-5')
Lab Sample ID: 890-2642-6
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 13:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 13:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 13:58	08/03/22 13:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 13:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 13:58	08/03/22 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*08/01/22 13:58*	*08/03/22 13:09*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*08/01/22 13:58*	*08/03/22 13:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		07/28/22 13:35	07/29/22 13:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/28/22 13:35	07/29/22 13:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/28/22 13:35	07/29/22 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*07/28/22 13:35*	*07/29/22 13:31*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*07/28/22 13:35*	*07/29/22 13:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**341**		4.96		mg/Kg			07/30/22 10:45	1

Client Sample ID: SW-52 (0-5')
Lab Sample ID: 890-2642-7
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 13:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 13:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 13:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 13:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 13:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/01/22 13:58*	*08/03/22 13:29*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*08/01/22 13:58*	*08/03/22 13:29*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-52 (0-5')
Lab Sample ID: 890-2642-7
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 13:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 13:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*07/28/22 13:35*	*07/29/22 13:52*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*07/28/22 13:35*	*07/29/22 13:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.5**		5.00		mg/Kg			07/30/22 10:54	1

Client Sample ID: SW-53 (0-5')
Lab Sample ID: 890-2642-8
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/22 13:58	08/03/22 13:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/22 13:58	08/03/22 13:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/22 13:58	08/03/22 13:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/22 13:58	08/03/22 13:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/22 13:58	08/03/22 13:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/22 13:58	08/03/22 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/01/22 13:58*	*08/03/22 13:50*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*08/01/22 13:58*	*08/03/22 13:50*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 14:13	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-53 (0-5')
Lab Sample ID: 890-2642-8
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 14:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*07/28/22 13:35*	*07/29/22 14:13*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*07/28/22 13:35*	*07/29/22 14:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		4.98		mg/Kg			07/30/22 11:03	1

Client Sample ID: SW-56 (0-5')
Lab Sample ID: 890-2642-9
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 14:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 14:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 14:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 13:58	08/03/22 14:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 14:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 13:58	08/03/22 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/01/22 13:58*	*08/03/22 14:11*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*08/01/22 13:58*	*08/03/22 14:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 14:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 14:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*07/28/22 13:35*	*07/29/22 14:34*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*07/28/22 13:35*	*07/29/22 14:34*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-56 (0-5') Lab Sample ID: 890-2642-9

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		4.95		mg/Kg			07/30/22 11:13	1

Client Sample ID: SW-75 (0-1') Lab Sample ID: 890-2642-10

Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 11:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 11:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 11:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 11:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 11:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/29/22 15:19*	*08/01/22 11:37*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/29/22 15:19*	*08/01/22 11:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 14:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 14:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*07/28/22 13:35*	*07/29/22 14:55*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*07/28/22 13:35*	*07/29/22 14:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.2		4.97		mg/Kg			07/30/22 11:22	1

Client Sample ID: SW-76 (0-1') Lab Sample ID: 890-2642-11

Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 11:58	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-76 (0-1')
Lab Sample ID: 890-2642-11
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 11:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 11:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 11:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 11:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/29/22 15:19*	*08/01/22 11:58*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*07/29/22 15:19*	*08/01/22 11:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 15:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 15:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*07/28/22 13:35*	*07/29/22 15:37*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*07/28/22 13:35*	*07/29/22 15:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		4.99		mg/Kg			07/30/22 11:31	1

Client Sample ID: SW-77 (0-1')
Lab Sample ID: 890-2642-12
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 12:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 12:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 12:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 12:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 12:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/29/22 15:19*	*08/01/22 12:19*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*07/29/22 15:19*	*08/01/22 12:19*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: SW-77 (0-1')

Lab Sample ID: 890-2642-12
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 15:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 15:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*07/28/22 13:35*	*07/29/22 15:58*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*07/28/22 13:35*	*07/29/22 15:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		4.98		mg/Kg			07/30/22 11:59	1

Client Sample ID: SW-78 (0-1')

Lab Sample ID: 890-2642-13
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 12:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/29/22 15:19	08/01/22 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 12:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/29/22 15:19	08/01/22 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/29/22 15:19*	*08/01/22 12:39*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*07/29/22 15:19*	*08/01/22 12:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 16:19	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-78 (0-1')
Lab Sample ID: 890-2642-13
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 16:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*07/28/22 13:35*	*07/29/22 16:19*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*07/28/22 13:35*	*07/29/22 16:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.1**		4.96		mg/Kg			07/30/22 12:08	1

Client Sample ID: SW-79 (0-1')
Lab Sample ID: 890-2642-14
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 13:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 13:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 13:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 13:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 13:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/29/22 15:19*	*08/01/22 13:00*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*07/29/22 15:19*	*08/01/22 13:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 16:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 16:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*07/28/22 13:35*	*07/29/22 16:39*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*07/28/22 13:35*	*07/29/22 16:39*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-79 (0-1') Lab Sample ID: 890-2642-14

Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.4		4.95		mg/Kg			07/30/22 12:35	1

Client Sample ID: SW-80 (0-4') Lab Sample ID: 890-2642-15

Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 13:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 13:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 13:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 13:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 13:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/29/22 15:19*	*08/01/22 13:21*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*07/29/22 15:19*	*08/01/22 13:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 17:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 17:01	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*07/28/22 13:35*	*07/29/22 17:01*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*07/28/22 13:35*	*07/29/22 17:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.5		5.05		mg/Kg			07/30/22 12:45	1

Client Sample ID: SW-81 (0-4') Lab Sample ID: 890-2642-16

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 13:42	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-81 (0-4')
Lab Sample ID: 890-2642-16
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 13:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 13:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/29/22 15:19	08/01/22 13:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 13:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/29/22 15:19	08/01/22 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/29/22 15:19*	*08/01/22 13:42*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*07/29/22 15:19*	*08/01/22 13:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 17:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 17:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*07/28/22 13:35*	*07/29/22 17:22*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*07/28/22 13:35*	*07/29/22 17:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.3**		4.99		mg/Kg			07/30/22 12:54	1

Client Sample ID: SW-82 (0-4')
Lab Sample ID: 890-2642-17
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 16:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 16:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 16:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/29/22 15:19	08/01/22 16:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 16:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/29/22 15:19	08/01/22 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/29/22 15:19*	*08/01/22 16:11*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*07/29/22 15:19*	*08/01/22 16:11*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-82 (0-4')
Lab Sample ID: 890-2642-17
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 17:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*07/28/22 13:35*	*07/29/22 17:43*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*07/28/22 13:35*	*07/29/22 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**357**		4.96		mg/Kg			07/30/22 13:03	1

Client Sample ID: SW-83 (0-4')
Lab Sample ID: 890-2642-18
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 14:53	08/02/22 13:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 14:53	08/02/22 13:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 14:53	08/02/22 13:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/29/22 14:53	08/02/22 13:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 14:53	08/02/22 13:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/29/22 14:53	08/02/22 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/29/22 14:53*	*08/02/22 13:28*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/29/22 14:53*	*08/02/22 13:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 18:11	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-83 (0-4')
Lab Sample ID: 890-2642-18
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 18:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*07/28/22 13:35*	*07/29/22 18:11*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*07/28/22 13:35*	*07/29/22 18:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**569**		5.00		mg/Kg			07/30/22 13:12	1

Client Sample ID: SW-84 (0-4')
Lab Sample ID: 890-2642-19
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/01/22 23:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/01/22 23:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/01/22 23:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/01/22 23:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/01/22 23:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/01/22 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/01/22 10:04*	*08/01/22 23:48*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*08/01/22 10:04*	*08/01/22 23:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**68.7**		50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 18:50	1
Diesel Range Organics (Over C10-C28)	**68.7**		50.0		mg/Kg		07/28/22 13:35	07/29/22 18:50	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*64*	*S1-*	*70 - 130*	*07/28/22 13:35*	*07/29/22 18:50*	*1*
o-Terphenyl (Surr)	*0.3*	*S1-*	*70 - 130*	*07/28/22 13:35*	*07/29/22 18:50*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-84 (0-4') Lab Sample ID: 890-2642-19

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		4.98		mg/Kg			07/30/22 13:21	1

Client Sample ID: SW-85 (0-4') Lab Sample ID: 890-2642-20

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 14:53	08/02/22 13:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 14:53	08/02/22 13:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 14:53	08/02/22 13:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/29/22 14:53	08/02/22 13:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 14:53	08/02/22 13:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/29/22 14:53	08/02/22 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/29/22 14:53*	*08/02/22 13:54*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/29/22 14:53*	*08/02/22 13:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 19:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 19:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:35	07/29/22 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*07/28/22 13:35*	*07/29/22 19:13*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*07/28/22 13:35*	*07/29/22 19:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5		4.95		mg/Kg			07/30/22 13:31	1

Client Sample ID: SW-86 (0-4') Lab Sample ID: 890-2642-21

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 00:29	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-86 (0-4')

Lab Sample ID: 890-2642-21
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 00:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 00:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 10:04	08/02/22 00:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 00:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 10:04	08/02/22 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/01/22 10:04*	*08/02/22 00:29*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/01/22 10:04*	*08/02/22 00:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U F2	49.9		mg/Kg		07/28/22 15:42	07/31/22 11:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 11:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*75*		*70 - 130*	*07/28/22 15:42*	*07/31/22 11:29*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*07/28/22 15:42*	*07/31/22 11:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.72**		4.96		mg/Kg			07/30/22 03:59	1

Client Sample ID: SW-87 (0-4')

Lab Sample ID: 890-2642-22
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:04	08/02/22 00:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:04	08/02/22 00:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:04	08/02/22 00:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/22 10:04	08/02/22 00:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:04	08/02/22 00:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/22 10:04	08/02/22 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*08/01/22 10:04*	*08/02/22 00:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/01/22 10:04*	*08/02/22 00:49*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-87 (0-4') Lab Sample ID: 890-2642-22

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 12:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 12:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*07/28/22 15:42*	*07/31/22 12:33*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*07/28/22 15:42*	*07/31/22 12:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.2**		5.05		mg/Kg			07/30/22 04:26	1

Client Sample ID: SW-88 (0-4') Lab Sample ID: 890-2642-23

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 01:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 01:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 01:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/01/22 10:04	08/02/22 01:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 01:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/22 10:04	08/02/22 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/01/22 10:04*	*08/02/22 01:10*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/01/22 10:04*	*08/02/22 01:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 12:55	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-88 (0-4')
Lab Sample ID: 890-2642-23
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 12:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*76*		*70 - 130*	*07/28/22 15:42*	*07/31/22 12:55*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*07/28/22 15:42*	*07/31/22 12:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.0**		4.99		mg/Kg			07/30/22 04:36	1

Client Sample ID: SW-89 (0-4')
Lab Sample ID: 890-2642-24
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 01:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 01:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 01:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 01:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 01:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/01/22 10:04*	*08/02/22 01:30*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/01/22 10:04*	*08/02/22 01:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		07/28/22 15:42	07/31/22 13:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/28/22 15:42	07/31/22 13:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/28/22 15:42	07/31/22 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 13:17*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*07/28/22 15:42*	*07/31/22 13:17*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-89 (0-4')
Lab Sample ID: 890-2642-24
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.6		4.98		mg/Kg			07/30/22 04:45	1

Client Sample ID: SW-90 (0-4')
Lab Sample ID: 890-2642-25
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 01:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 01:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 01:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/01/22 10:04	08/02/22 01:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 01:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/22 10:04	08/02/22 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/01/22 10:04*	*08/02/22 01:50*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/01/22 10:04*	*08/02/22 01:50*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 13:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*58*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 13:39*	*1*
o-Terphenyl (Surr)	*61*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 13:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.9		5.05		mg/Kg			07/30/22 04:54	1

Client Sample ID: SW-91 (0-4')
Lab Sample ID: 890-2642-26
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 02:11	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-91 (0-4')

Lab Sample ID: 890-2642-26
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 02:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 02:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 10:04	08/02/22 02:11	1
o-Xylene	**0.00228**		0.00200		mg/Kg		08/01/22 10:04	08/02/22 02:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 10:04	08/02/22 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*08/01/22 10:04*	*08/02/22 02:11*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/01/22 10:04*	*08/02/22 02:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		07/28/22 15:42	07/31/22 14:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/28/22 15:42	07/31/22 14:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/28/22 15:42	07/31/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*56*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 14:00*	*1*
o-Terphenyl (Surr)	*55*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 14:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.8**		4.96		mg/Kg			07/30/22 05:22	1

Client Sample ID: SW-92 (0-4')

Lab Sample ID: 890-2642-27
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 03:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 03:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 03:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 03:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 03:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/01/22 10:04*	*08/02/22 03:33*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*08/01/22 10:04*	*08/02/22 03:33*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: SW-92 (0-4')

Lab Sample ID: 890-2642-27
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 14:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*67*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 14:22*	*1*
o-Terphenyl (Surr)	*67*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 14:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.4**		5.00		mg/Kg			07/30/22 05:31	1

Client Sample ID: SW-93 (0-4')

Lab Sample ID: 890-2642-28
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 03:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 03:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 03:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/01/22 10:04	08/02/22 03:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 03:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/22 10:04	08/02/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/01/22 10:04*	*08/02/22 03:53*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*08/01/22 10:04*	*08/02/22 03:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 14:44	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-93 (0-4') Lab Sample ID: 890-2642-28

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 14:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 14:44*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*07/28/22 15:42*	*07/31/22 14:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**135**		4.95		mg/Kg			07/30/22 05:40	1

Client Sample ID: BH-49 (5') Lab Sample ID: 890-2642-29

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 14:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 14:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 14:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 14:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 14:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/01/22 13:58*	*08/03/22 14:32*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*08/01/22 13:58*	*08/03/22 14:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*48*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 15:06*	*1*
o-Terphenyl (Surr)	*44*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 15:06*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-49 (5')
Lab Sample ID: 890-2642-29
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.2		5.03		mg/Kg			07/30/22 05:50	1

Client Sample ID: BH-50 (5')
Lab Sample ID: 890-2642-30
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/22 13:58	08/03/22 16:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/22 13:58	08/03/22 16:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/22 13:58	08/03/22 16:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/22 13:58	08/03/22 16:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/22 13:58	08/03/22 16:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/22 13:58	08/03/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/01/22 13:58*	*08/03/22 16:32*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*08/01/22 13:58*	*08/03/22 16:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 15:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 15:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*57*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 15:28*	*1*
o-Terphenyl (Surr)	*56*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 15:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		4.97		mg/Kg			07/30/22 05:59	1

Client Sample ID: BH-51 (5')
Lab Sample ID: 890-2642-31
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 16:53	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-51 (5')
Lab Sample ID: 890-2642-31
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 16:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 16:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 13:58	08/03/22 16:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 16:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 13:58	08/03/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/01/22 13:58*	*08/03/22 16:53*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*08/01/22 13:58*	*08/03/22 16:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 16:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 16:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*73*		*70 - 130*	*07/28/22 15:42*	*07/31/22 16:11*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*07/28/22 15:42*	*07/31/22 16:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.2**		4.96		mg/Kg			07/30/22 06:08	1

Client Sample ID: BH-52 (5')
Lab Sample ID: 890-2642-32
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 17:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 17:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 17:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 17:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 17:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*51*	*S1-*	*70 - 130*	*08/01/22 13:58*	*08/03/22 17:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/01/22 13:58*	*08/03/22 17:28*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-52 (5')

Lab Sample ID: 890-2642-32
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 16:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*55*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 16:32*	*1*
o-Terphenyl (Surr)	*57*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 16:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.3**		5.00		mg/Kg			07/30/22 06:36	1

Client Sample ID: BH-53 (5')

Lab Sample ID: 890-2642-33
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 17:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 17:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 17:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 17:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 17:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/01/22 13:58*	*08/03/22 17:49*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*08/01/22 13:58*	*08/03/22 17:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 16:54	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-53 (5')
Lab Sample ID: 890-2642-33
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 16:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*07/28/22 15:42*	*07/31/22 16:54*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*07/28/22 15:42*	*07/31/22 16:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**201**		4.98		mg/Kg			07/30/22 06:45	1

Client Sample ID: BH-54 (5')
Lab Sample ID: 890-2642-34
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/22 13:58	08/03/22 18:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/22 13:58	08/03/22 18:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/22 13:58	08/03/22 18:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/01/22 13:58	08/03/22 18:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/22 13:58	08/03/22 18:09	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/01/22 13:58	08/03/22 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*08/01/22 13:58*	*08/03/22 18:09*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*08/01/22 13:58*	*08/03/22 18:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 17:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 17:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*07/28/22 15:42*	*07/31/22 17:16*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*07/28/22 15:42*	*07/31/22 17:16*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-54 (5')
Lab Sample ID: 890-2642-34
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		4.95		mg/Kg			07/30/22 07:13	1

Client Sample ID: BH-55 (5')
Lab Sample ID: 890-2642-35
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 18:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 18:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 18:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 18:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 18:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/01/22 13:58*	*08/03/22 18:30*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*08/01/22 13:58*	*08/03/22 18:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 17:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*39*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 17:37*	*1*
o-Terphenyl (Surr)	*36*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 17:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		4.99		mg/Kg			07/30/22 07:22	1

Client Sample ID: BH-56 (5')
Lab Sample ID: 890-2642-36
Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 18:51	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-56 (5')

Lab Sample ID: 890-2642-36
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 18:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 18:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 18:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 13:58	08/03/22 18:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 13:58	08/03/22 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/01/22 13:58*	*08/03/22 18:51*	*1*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*	*08/01/22 13:58*	*08/03/22 18:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 17:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*67*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 17:59*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*07/28/22 15:42*	*07/31/22 17:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**181**		5.00		mg/Kg			07/30/22 07:31	1

Client Sample ID: BH-57 (5')

Lab Sample ID: 890-2642-37
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 16:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 16:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 16:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 16:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 16:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/29/22 15:19*	*08/01/22 16:31*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*07/29/22 15:19*	*08/01/22 16:31*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-57 (5')
Lab Sample ID: 890-2642-37
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 5

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 18:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 18:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*54*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 18:21*	*1*
o-Terphenyl (Surr)	*56*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 18:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		5.00		mg/Kg			07/30/22 07:40	1

Client Sample ID: BH-65 (1')
Lab Sample ID: 890-2642-38
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 16:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 16:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 16:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 16:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 16:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/29/22 15:19*	*08/01/22 16:52*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*07/29/22 15:19*	*08/01/22 16:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 18:42	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-65 (1')
Lab Sample ID: 890-2642-38
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 18:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*48*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 18:42*	*1*
o-Terphenyl (Surr)	*47*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 18:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.4**		4.96		mg/Kg			07/30/22 07:50	1

Client Sample ID: BH-66 (1')
Lab Sample ID: 890-2642-39
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 17:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 17:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 17:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/29/22 15:19	08/01/22 17:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 17:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/29/22 15:19	08/01/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/29/22 15:19*	*08/01/22 17:13*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*07/29/22 15:19*	*08/01/22 17:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 19:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 19:04	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*56*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 19:04*	*1*
o-Terphenyl (Surr)	*57*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 19:04*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-66 (1')

Lab Sample ID: 890-2642-39
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.5		5.04		mg/Kg			07/30/22 07:59	1

Client Sample ID: BH-67 (1')

Lab Sample ID: 890-2642-40
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 17:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 17:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 17:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 17:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 17:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/29/22 15:19*	*08/01/22 17:33*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*07/29/22 15:19*	*08/01/22 17:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 19:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:42	07/31/22 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*37*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 19:26*	*1*
o-Terphenyl (Surr)	*34*	*S1-*	*70 - 130*	*07/28/22 15:42*	*07/31/22 19:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.4		4.98		mg/Kg			07/30/22 08:08	1

Client Sample ID: BH-68 (1')

Lab Sample ID: 890-2642-41
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 17:54	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-68 (1')

Lab Sample ID: 890-2642-41
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 17:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 17:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 17:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/29/22 15:19*	*08/01/22 17:54*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*07/29/22 15:19*	*08/01/22 17:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U F1 F2	49.9		mg/Kg		07/28/22 15:45	07/29/22 21:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/29/22 21:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/29/22 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*07/28/22 15:45*	*07/29/22 21:00*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*07/28/22 15:45*	*07/29/22 21:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.0**		4.99		mg/Kg			07/28/22 14:54	1

Client Sample ID: BH-69 (1')

Lab Sample ID: 890-2642-42
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 18:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 18:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 18:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/29/22 15:19	08/01/22 18:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 18:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/29/22 15:19	08/01/22 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/29/22 15:19*	*08/01/22 18:15*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*07/29/22 15:19*	*08/01/22 18:15*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-69 (1')

Lab Sample ID: 890-2642-42
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/29/22 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/29/22 22:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/29/22 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*07/28/22 15:45*	*07/29/22 22:04*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*07/28/22 15:45*	*07/29/22 22:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**		4.95		mg/Kg			07/28/22 15:03	1

Client Sample ID: BH-70 (1')

Lab Sample ID: 890-2642-43
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 18:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 18:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/29/22 15:19	08/01/22 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/29/22 15:19*	*08/01/22 18:36*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*07/29/22 15:19*	*08/01/22 18:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 22:25	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-70 (1')
Lab Sample ID: 890-2642-43
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 22:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*07/28/22 15:45*	*07/29/22 22:25*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*07/28/22 15:45*	*07/29/22 22:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.66**		5.00		mg/Kg			07/28/22 15:12	1

Client Sample ID: BH-71 (1')
Lab Sample ID: 890-2642-44
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 18:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 18:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 18:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 18:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:19	08/01/22 18:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/22 15:19	08/01/22 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/29/22 15:19*	*08/01/22 18:56*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*07/29/22 15:19*	*08/01/22 18:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		07/28/22 15:45	07/29/22 22:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/28/22 15:45	07/29/22 22:46	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/28/22 15:45	07/29/22 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*07/28/22 15:45*	*07/29/22 22:46*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*07/28/22 15:45*	*07/29/22 22:46*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-71 (1')
Lab Sample ID: 890-2642-44
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			07/28/22 15:22	1

Client Sample ID: BH-72 (1')
Lab Sample ID: 890-2642-45
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 19:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 19:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 19:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/29/22 15:19	08/01/22 19:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/29/22 15:19	08/01/22 19:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/29/22 15:19	08/01/22 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/29/22 15:19*	*08/01/22 19:17*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*07/29/22 15:19*	*08/01/22 19:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 23:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 23:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*07/28/22 15:45*	*07/29/22 23:08*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*07/28/22 15:45*	*07/29/22 23:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.0**		4.96		mg/Kg			07/28/22 15:31	1

Client Sample ID: BH-73 (1')
Lab Sample ID: 890-2642-46
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:04	08/02/22 04:14	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-73 (1')
Lab Sample ID: 890-2642-46
Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:04	08/02/22 04:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:04	08/02/22 04:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/22 10:04	08/02/22 04:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:04	08/02/22 04:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/22 10:04	08/02/22 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/01/22 10:04*	*08/02/22 04:14*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/01/22 10:04*	*08/02/22 04:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		07/28/22 15:45	07/29/22 23:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/28/22 15:45	07/29/22 23:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/28/22 15:45	07/29/22 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*07/28/22 15:45*	*07/29/22 23:29*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*07/28/22 15:45*	*07/29/22 23:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.71**		5.00		mg/Kg			07/28/22 15:40	1

Client Sample ID: BH-74 (4')
Lab Sample ID: 890-2642-47
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 04:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 10:04	08/02/22 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/02/22 04:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 10:04	08/02/22 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/01/22 10:04*	*08/02/22 04:34*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/01/22 10:04*	*08/02/22 04:34*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-74 (4')
Lab Sample ID: 890-2642-47
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/29/22 23:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/29/22 23:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/29/22 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*07/28/22 15:45*	*07/29/22 23:50*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*07/28/22 15:45*	*07/29/22 23:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.28**		4.99		mg/Kg			07/28/22 16:08	1

Client Sample ID: BH-75 (4')
Lab Sample ID: 890-2642-48
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 04:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 04:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 04:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 04:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 04:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/01/22 10:04*	*08/02/22 04:54*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/01/22 10:04*	*08/02/22 04:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 00:11	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-75 (4')
Lab Sample ID: 890-2642-48
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 00:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*07/28/22 15:45*	*07/30/22 00:11*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*07/28/22 15:45*	*07/30/22 00:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.6**		4.96		mg/Kg			07/28/22 16:17	1

Client Sample ID: BH-76 (4')
Lab Sample ID: 890-2642-49
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 05:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 05:15	1
Ethylbenzene	**0.00263**		0.00199		mg/Kg		08/01/22 10:04	08/02/22 05:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 05:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 05:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/01/22 10:04*	*08/02/22 05:15*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*08/01/22 10:04*	*08/02/22 05:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 00:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 00:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*07/28/22 15:45*	*07/30/22 00:33*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*07/28/22 15:45*	*07/30/22 00:33*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-76 (4') Lab Sample ID: 890-2642-49

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		5.04		mg/Kg			07/28/22 16:45	1

Client Sample ID: BH-77 (4') Lab Sample ID: 890-2642-50

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 05:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 05:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 05:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 05:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:04	08/02/22 05:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:04	08/02/22 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/01/22 10:04*	*08/02/22 05:35*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*08/01/22 10:04*	*08/02/22 05:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 00:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 00:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*07/28/22 15:45*	*07/30/22 00:54*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*07/28/22 15:45*	*07/30/22 00:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.96		4.99		mg/Kg			07/28/22 16:54	1

Client Sample ID: BH-78 (4') Lab Sample ID: 890-2642-51

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 17:36	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-78 (4')
Lab Sample ID: 890-2642-51
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		07/29/22 15:39	08/01/22 17:36	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		07/29/22 15:39	08/01/22 17:36	1
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.00401		mg/Kg		07/29/22 15:39	08/01/22 17:36	1
o-Xylene	<0.00200	U F2	0.00200		mg/Kg		07/29/22 15:39	08/01/22 17:36	1
Xylenes, Total	<0.00401	U F2 F1	0.00401		mg/Kg		07/29/22 15:39	08/01/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/29/22 15:39*	*08/01/22 17:36*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/29/22 15:39*	*08/01/22 17:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 01:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 01:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*07/28/22 15:45*	*07/30/22 01:36*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*07/28/22 15:45*	*07/30/22 01:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.4**		4.97		mg/Kg			07/28/22 17:03	1

Client Sample ID: BH-79 (4')
Lab Sample ID: 890-2642-52
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 18:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 18:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 18:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/29/22 15:39	08/01/22 18:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 18:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/29/22 15:39	08/01/22 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*07/29/22 15:39*	*08/01/22 18:02*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/29/22 15:39*	*08/01/22 18:02*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-79 (4')
Lab Sample ID: 890-2642-52
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 01:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 01:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*07/28/22 15:45*	*07/30/22 01:57*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*07/28/22 15:45*	*07/30/22 01:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.6**		5.00		mg/Kg			07/28/22 17:12	1

Client Sample ID: BH-80 (4')
Lab Sample ID: 890-2642-53
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:39	08/01/22 18:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:39	08/01/22 18:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:39	08/01/22 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/22 15:39	08/01/22 18:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/29/22 15:39	08/01/22 18:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/22 15:39	08/01/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*07/29/22 15:39*	*08/01/22 18:28*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*07/29/22 15:39*	*08/01/22 18:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 02:19	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: BH-80 (4')
Lab Sample ID: 890-2642-53
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 02:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*07/28/22 15:45*	*07/30/22 02:19*	*1*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*	*07/28/22 15:45*	*07/30/22 02:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**208**		4.98		mg/Kg			07/28/22 17:22	1

Client Sample ID: BH-81 (4')
Lab Sample ID: 890-2642-54
Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 18:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 18:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 18:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/29/22 15:39	08/01/22 18:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 18:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/29/22 15:39	08/01/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*07/29/22 15:39*	*08/01/22 18:54*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/29/22 15:39*	*08/01/22 18:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 02:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 02:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/30/22 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*07/28/22 15:45*	*07/30/22 02:40*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*07/28/22 15:45*	*07/30/22 02:40*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-81 (4')

Lab Sample ID: 890-2642-54
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.95		mg/Kg			07/28/22 17:31	1

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

Lab Sample ID: 890-2642-55
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 19:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 19:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 19:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/29/22 15:39	08/01/22 19:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 19:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/29/22 15:39	08/01/22 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/29/22 15:39*	*08/01/22 19:21*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/29/22 15:39*	*08/01/22 19:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/30/22 10:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 03:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 03:01	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 15:45	07/30/22 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*07/28/22 15:45*	*07/30/22 03:01*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*07/28/22 15:45*	*07/30/22 03:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.5		5.05		mg/Kg			07/28/22 17:40	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy 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)
880-17204-A-219-D MS	Matrix Spike	84	114
880-17204-A-219-E MSD	Matrix Spike Duplicate	79	113
880-17512-A-1-D MS	Matrix Spike	280 S1+	77
880-17512-A-1-E MSD	Matrix Spike Duplicate	35 S1-	87
890-2642-1	SW-46 (0-5')	89	120
890-2642-1 MS	SW-46 (0-5')	82	117
890-2642-1 MSD	SW-46 (0-5')	81	117
890-2642-2	SW-47 (0-5')	89	126
890-2642-3	SW-48 (0-5')	90	117
890-2642-4	SW-49 (0-5')	89	124
890-2642-5	SW-50 (0-5')	93	126
890-2642-6	SW-51 (0-5')	85	124
890-2642-7	SW-52 (0-5')	91	125
890-2642-8	SW-53 (0-5')	92	128
890-2642-9	SW-56 (0-5')	89	128
890-2642-10	SW-75 (0-1')	92	113
890-2642-10 MS	SW-75 (0-1')	80	111
890-2642-10 MSD	SW-75 (0-1')	83	112
890-2642-11	SW-76 (0-1')	92	117
890-2642-12	SW-77 (0-1')	93	121
890-2642-13	SW-78 (0-1')	94	119
890-2642-14	SW-79 (0-1')	87	123
890-2642-15	SW-80 (0-4')	95	122
890-2642-16	SW-81 (0-4')	94	120
890-2642-17	SW-82 (0-4')	89	120
890-2642-18	SW-83 (0-4')	100	104
890-2642-19	SW-84 (0-4')	120	82
890-2642-20	SW-85 (0-4')	105	109
890-2642-21	SW-86 (0-4')	92	88
890-2642-22	SW-87 (0-4')	60 S1-	86
890-2642-23	SW-88 (0-4')	120	87
890-2642-24	SW-89 (0-4')	116	92
890-2642-25	SW-90 (0-4')	118	89
890-2642-26	SW-91 (0-4')	84	96
890-2642-27	SW-92 (0-4')	100	74
890-2642-28	SW-93 (0-4')	103	80
890-2642-29	BH-49 (5')	97	129
890-2642-30	BH-50 (5')	91	121
890-2642-31	BH-51 (5')	92	125
890-2642-32	BH-52 (5')	51 S1-	97
890-2642-33	BH-53 (5')	92	131 S1+
890-2642-34	BH-54 (5')	86	124
890-2642-35	BH-55 (5')	91	127
890-2642-36	BH-56 (5')	89	130
890-2642-37	BH-57 (5')	88	118
890-2642-38	BH-65 (1')	101	119
890-2642-39	BH-66 (1')	92	118
890-2642-40	BH-67 (1')	92	106
890-2642-41	BH-68 (1')	91	121

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)								
890-2642-42	BH-69 (1')	88	119								
890-2642-43	BH-70 (1')	93	121								
890-2642-44	BH-71 (1')	92	121								
890-2642-45	BH-72 (1')	89	119								
890-2642-46	BH-73 (1')	102	95								
890-2642-47	BH-74 (4')	115	86								
890-2642-48	BH-75 (4')	118	88								
890-2642-49	BH-76 (4')	99	82								
890-2642-50	BH-77 (4')	100	74								
890-2642-51	BH-78 (4')	106	110								
890-2642-51 MS	BH-78 (4')	69 S1-	117								
890-2642-51 MSD	BH-78 (4')	96	104								
890-2642-52	BH-79 (4')	81	103								
890-2642-53	BH-80 (4')	77	105								
890-2642-54	BH-81 (4')	78	107								
890-2642-55	HD-2 (0-1')	94	100								
890-2643-A-3-D MS	Matrix Spike	82	114								
890-2643-A-3-E MSD	Matrix Spike Duplicate	85	121								
890-2688-A-22-B MS	Matrix Spike	96	93								
890-2688-A-22-C MSD	Matrix Spike Duplicate	89	83								
LCS 880-30914/1-A	Lab Control Sample	83	112								
LCS 880-31023/1-A	Lab Control Sample	70	102								
LCS 880-31025/1-A	Lab Control Sample	83	114								
LCS 880-31030/1-A	Lab Control Sample	96	111								
LCS 880-31170/1-A	Lab Control Sample	103	100								
LCS 880-31190/1-A	Lab Control Sample	80	118								
LCS 880-31195/1-A	Lab Control Sample	77	107								
LCSD 880-30914/2-A	Lab Control Sample Dup	83	113								
LCSD 880-31023/2-A	Lab Control Sample Dup	104	109								
LCSD 880-31025/2-A	Lab Control Sample Dup	81	113								
LCSD 880-31030/2-A	Lab Control Sample Dup	90	106								
LCSD 880-31155/2-A	Lab Control Sample Dup	98	96								
LCSD 880-31170/2-A	Lab Control Sample Dup	96	94								
LCSD 880-31190/2-A	Lab Control Sample Dup	82	115								
LCSD 880-31195/2-A	Lab Control Sample Dup	80	115								
MB 880-30914/5-A	Method Blank	88	107								
MB 880-31023/5-A	Method Blank	78	93								
MB 880-31025/5-A	Method Blank	84	107								
MB 880-31030/5-A	Method Blank	73	97								
MB 880-31155/5-A	Method Blank	98	89								
MB 880-31170/5-A	Method Blank	99	83								
MB 880-31190/5-A	Method Blank	83	106								
MB 880-31195/5-A	Method Blank	82	106								

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-2642-1	SW-46 (0-5')	104	122								
890-2642-1 MS	SW-46 (0-5')	90	90								
890-2642-1 MSD	SW-46 (0-5')	91	90								
890-2642-2	SW-47 (0-5')	93	108								
890-2642-3	SW-48 (0-5')	0 S1-	0 S1-								
890-2642-4	SW-49 (0-5')	113	130								
890-2642-5	SW-50 (0-5')	93	106								
890-2642-6	SW-51 (0-5')	96	112								
890-2642-7	SW-52 (0-5')	95	111								
890-2642-8	SW-53 (0-5')	103	122								
890-2642-9	SW-56 (0-5')	107	126								
890-2642-10	SW-75 (0-1')	92	105								
890-2642-11	SW-76 (0-1')	96	111								
890-2642-12	SW-77 (0-1')	93	109								
890-2642-13	SW-78 (0-1')	106	121								
890-2642-14	SW-79 (0-1')	95	107								
890-2642-15	SW-80 (0-4')	106	122								
890-2642-16	SW-81 (0-4')	102	117								
890-2642-17	SW-82 (0-4')	95	110								
890-2642-18	SW-83 (0-4')	91	106								
890-2642-19	SW-84 (0-4')	64 S1-	0.3 S1-								
890-2642-20	SW-85 (0-4')	111	128								
890-2642-21	SW-86 (0-4')	75	83								
890-2642-21 MS	SW-86 (0-4')	82	76								
890-2642-21 MSD	SW-86 (0-4')	78	73								
890-2642-22	SW-87 (0-4')	99	103								
890-2642-23	SW-88 (0-4')	76	75								
890-2642-24	SW-89 (0-4')	69 S1-	75								
890-2642-25	SW-90 (0-4')	58 S1-	61 S1-								
890-2642-26	SW-91 (0-4')	56 S1-	55 S1-								
890-2642-27	SW-92 (0-4')	67 S1-	67 S1-								
890-2642-28	SW-93 (0-4')	69 S1-	71								
890-2642-29	BH-49 (5')	48 S1-	44 S1-								
890-2642-30	BH-50 (5')	57 S1-	56 S1-								
890-2642-31	BH-51 (5')	73	76								
890-2642-32	BH-52 (5')	55 S1-	57 S1-								
890-2642-33	BH-53 (5')	84	83								
890-2642-34	BH-54 (5')	96	101								
890-2642-35	BH-55 (5')	39 S1-	36 S1-								
890-2642-36	BH-56 (5')	67 S1-	72								
890-2642-37	BH-57 (5')	54 S1-	56 S1-								
890-2642-38	BH-65 (1')	48 S1-	47 S1-								
890-2642-39	BH-66 (1')	56 S1-	57 S1-								
890-2642-40	BH-67 (1')	37 S1-	34 S1-								
890-2642-41	BH-68 (1')	90	104								
890-2642-41 MS	BH-68 (1')	93	93								
890-2642-41 MSD	BH-68 (1')	109	109								
890-2642-42	BH-69 (1')	94	107								
890-2642-43	BH-70 (1')	92	106								
890-2642-44	BH-71 (1')	94	107								

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-2642-45	BH-72 (1')	99	112										
890-2642-46	BH-73 (1')	87	103										
890-2642-47	BH-74 (4')	86	102										
890-2642-48	BH-75 (4')	89	110										
890-2642-49	BH-76 (4')	90	111										
890-2642-50	BH-77 (4')	91	111										
890-2642-51	BH-78 (4')	93	110										
890-2642-52	BH-79 (4')	88	109										
890-2642-53	BH-80 (4')	116	134 S1+										
890-2642-54	BH-81 (4')	105	126										
890-2642-55	HD-2 (0-1')	104	122										
LCS 880-30926/2-A	Lab Control Sample	108	115										
LCS 880-30935/2-A	Lab Control Sample	89	90										
LCS 880-30936/2-A	Lab Control Sample	102	114										
LCSD 880-30926/3-A	Lab Control Sample Dup	107	114										
LCSD 880-30935/3-A	Lab Control Sample Dup	88	88										
LCSD 880-30936/3-A	Lab Control Sample Dup	104	115										
MB 880-30926/1-A	Method Blank	97	115										
MB 880-30935/1-A	Method Blank	84	101										
MB 880-30936/1-A	Method Blank	106	127										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30914/5-A
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30914

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/22 10:44	08/01/22 22:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/22 10:44	08/01/22 22:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/22 10:44	08/01/22 22:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/28/22 10:44	08/01/22 22:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/22 10:44	08/01/22 22:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/28/22 10:44	08/01/22 22:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/28/22 10:44*	*08/01/22 22:02*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/28/22 10:44*	*08/01/22 22:02*	*1*

Lab Sample ID: LCS 880-30914/1-A
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30914

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1036		mg/Kg		104	70 - 130		
Toluene			0.100	0.09141		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.08864		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1728		mg/Kg		86	70 - 130		
o-Xylene			0.100	0.08598		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-30914/2-A
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30914

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1144		mg/Kg		114	70 - 130	10	35
Toluene			0.100	0.09687		mg/Kg		97	70 - 130	6	35
Ethylbenzene			0.100	0.09273		mg/Kg		93	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1810		mg/Kg		91	70 - 130	5	35
o-Xylene			0.100	0.08961		mg/Kg		90	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-17204-A-219-D MS
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.09553		mg/Kg		94	70 - 130		
Toluene	0.00294		0.101	0.08456		mg/Kg		81	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

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

Lab Sample ID: 880-17204-A-219-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31149 **Prep Batch: 30914**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.07943		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1536		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.07431		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-17204-A-219-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31149 **Prep Batch: 30914**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.09528		mg/Kg		95	70 - 130	0	35
Toluene	0.00294		0.0990	0.08036		mg/Kg		78	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0990	0.07361		mg/Kg		73	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1413		mg/Kg		70	70 - 130	8	35
o-Xylene	<0.00201	U F1	0.0990	0.06848	F1	mg/Kg		69	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: MB 880-31023/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31193 **Prep Batch: 31023**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/29/22 14:53	08/02/22 06:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/29/22 14:53	08/02/22 06:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/29/22 14:53	08/02/22 06:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/29/22 14:53	08/02/22 06:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/29/22 14:53	08/02/22 06:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/29/22 14:53	08/02/22 06:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*07/29/22 14:53*	*08/02/22 06:34*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/29/22 14:53*	*08/02/22 06:34*	*1*

Lab Sample ID: LCS 880-31023/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31193 **Prep Batch: 31023**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09121		mg/Kg		91	70 - 130
Toluene	0.100	0.08538		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08659		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1757		mg/Kg		88	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-31023/1-A
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31023

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09078		mg/Kg		91	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	70		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-31023/2-A
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31023

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1074		mg/Kg		107	70 - 130	16	35
Toluene			0.100	0.09979		mg/Kg		100	70 - 130	16	35
Ethylbenzene			0.100	0.1017		mg/Kg		102	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.2063		mg/Kg		103	70 - 130	16	35
o-Xylene			0.100	0.1125		mg/Kg		113	70 - 130	21	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-17512-A-1-D MS
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.0998	0.03783	F1	mg/Kg		38	70 - 130		
Toluene	0.241	F1	0.0998	0.2720	F1	mg/Kg		31	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	280	S1+	70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: 880-17512-A-1-E MSD
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.03777	F1	mg/Kg		38	70 - 130	0	35
Toluene	0.241	F1	0.0994	0.2906	F1	mg/Kg		50	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	35	S1-	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-31025/5-A
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31025

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/22 15:19	08/01/22 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:19	08/01/22 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/22 15:19	08/01/22 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*07/29/22 15:19*	*08/01/22 11:15*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/29/22 15:19*	*08/01/22 11:15*	*1*

Lab Sample ID: LCS 880-31025/1-A
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31025

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1244		mg/Kg		124	70 - 130		
Toluene			0.100	0.1040		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.1002		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.1940		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09418		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-31025/2-A
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31025

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1294		mg/Kg		129	70 - 130	4	35
Toluene			0.100	0.1042		mg/Kg		104	70 - 130	0	35
Ethylbenzene			0.100	0.09826		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1891		mg/Kg		95	70 - 130	3	35
o-Xylene			0.100	0.09196		mg/Kg		92	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 890-2642-10 MS
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: SW-75 (0-1')
Prep Type: Total/NA
Prep Batch: 31025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.1128		mg/Kg		113	70 - 130		
Toluene	<0.00200	U	0.0998	0.09215		mg/Kg		92	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2642-10 MS
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: SW-75 (0-1')
Prep Type: Total/NA
Prep Batch: 31025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.08661		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1668		mg/Kg		84	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08060		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 890-2642-10 MSD
Matrix: Solid
Analysis Batch: 31149

Client Sample ID: SW-75 (0-1')
Prep Type: Total/NA
Prep Batch: 31025

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.1154		mg/Kg		116	70 - 130	2	35
Toluene	<0.00200	U	0.0994	0.09521		mg/Kg		96	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0994	0.09030		mg/Kg		91	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1730		mg/Kg		87	70 - 130	4	35
o-Xylene	<0.00200	U	0.0994	0.08367		mg/Kg		84	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-31030/5-A
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31030

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 17:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 17:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 17:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/22 15:39	08/01/22 17:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:39	08/01/22 17:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/22 15:39	08/01/22 17:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*07/29/22 15:39*	*08/01/22 17:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/29/22 15:39*	*08/01/22 17:07*	*1*

Lab Sample ID: LCS 880-31030/1-A
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1150		mg/Kg		115	70 - 130
Toluene	0.100	0.1015		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09972		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		103	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-31030/1-A
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31030

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1121		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-31030/2-A
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1046		mg/Kg		105	70 - 130	9	35
Toluene			0.100	0.09316		mg/Kg		93	70 - 130	9	35
Ethylbenzene			0.100	0.09295		mg/Kg		93	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1902		mg/Kg		95	70 - 130	7	35
o-Xylene			0.100	0.1017		mg/Kg		102	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-2642-51 MS
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: BH-78 (4')
Prep Type: Total/NA
Prep Batch: 31030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08943		mg/Kg		89	70 - 130		
Toluene	<0.00200	U F2 F1	0.100	0.06208	F1	mg/Kg		62	70 - 130		
Ethylbenzene	<0.00200	U F2 F1	0.100	0.06520	F1	mg/Kg		65	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.200	0.1338	F1	mg/Kg		67	70 - 130		
o-Xylene	<0.00200	U F2	0.100	0.07142		mg/Kg		71	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 890-2642-51 MSD
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: BH-78 (4')
Prep Type: Total/NA
Prep Batch: 31030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.1070		mg/Kg		107	70 - 130	18	35
Toluene	<0.00200	U F2 F1	0.0998	0.09677	F2	mg/Kg		97	70 - 130	44	35
Ethylbenzene	<0.00200	U F2 F1	0.0998	0.09990	F2	mg/Kg		100	70 - 130	42	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.200	0.2051	F2	mg/Kg		103	70 - 130	42	35
o-Xylene	<0.00200	U F2	0.0998	0.1084	F2	mg/Kg		109	70 - 130	41	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2642-51 MSD
Matrix: Solid
Analysis Batch: 31193

Client Sample ID: BH-78 (4')
Prep Type: Total/NA
Prep Batch: 31030

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-31155/5-A
Matrix: Solid
Analysis Batch: 31148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31155

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/22 09:07	08/01/22 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/01/22 09:07*	*08/01/22 11:15*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/01/22 09:07*	*08/01/22 11:15*	*1*

Lab Sample ID: LCSD 880-31155/2-A
Matrix: Solid
Analysis Batch: 31148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31155

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09608		mg/Kg		96	70 - 130	3	35
Toluene			0.100	0.09311		mg/Kg		93	70 - 130	3	35
Ethylbenzene			0.100	0.09442		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1886		mg/Kg		94	70 - 130	5	35
o-Xylene			0.100	0.1018		mg/Kg		102	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-31170/5-A
Matrix: Solid
Analysis Batch: 31148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31170

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/22 10:04	08/01/22 22:45	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-31170/5-A
Matrix: Solid
Analysis Batch: 31148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31170

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/01/22 10:04	08/01/22 22:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/01/22 10:04	08/01/22 22:45	1

Lab Sample ID: LCS 880-31170/1-A
Matrix: Solid
Analysis Batch: 31148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1033		mg/Kg		103	70 - 130
Toluene	0.100	0.09939		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2046		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1127		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-31170/2-A
Matrix: Solid
Analysis Batch: 31148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31170

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09968		mg/Kg		100	70 - 130	4	35
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2054		mg/Kg		103	70 - 130	0	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-2688-A-22-B MS
Matrix: Solid
Analysis Batch: 31148

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.01203	F1	mg/Kg		12	70 - 130
Toluene	<0.00200	U F1	0.0998	0.01160	F1	mg/Kg		11	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.01504	F1	mg/Kg		13	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.03299	F1	mg/Kg		15	70 - 130
o-Xylene	0.00202	F1	0.0998	0.02103	F1	mg/Kg		19	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2688-A-22-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31148 — **Prep Batch: 31170**

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	0.01183	F1	mg/Kg		12	70 - 130	2	35
Toluene	<0.00200	U F1	0.100	0.01270	F1	mg/Kg		12	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.100	0.01492	F1	mg/Kg		13	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.03131	F1	mg/Kg		14	70 - 130	5	35
o-Xylene	0.00202	F1	0.100	0.01987	F1	mg/Kg		18	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: MB 880-31190/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31376 — **Prep Batch: 31190**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/22 13:54	08/03/22 22:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*08/02/22 13:54*	*08/03/22 22:39*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/02/22 13:54*	*08/03/22 22:39*	*1*

Lab Sample ID: LCS 880-31190/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31376 — **Prep Batch: 31190**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1198		mg/Kg		120	70 - 130		
Toluene			0.100	0.09669		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09060		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1747		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.08684		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-31190/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31376 — **Prep Batch: 31190**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1251		mg/Kg		125	70 - 130	4	35
Toluene			0.100	0.09932		mg/Kg		99	70 - 130	3	35

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-31190/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.09308		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1781		mg/Kg		89	70 - 130	2	35
o-Xylene			0.100	0.08893		mg/Kg		89	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 890-2643-A-3-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.1023		mg/Kg		102	70 - 130
Toluene	<0.00201	U	0.0996	0.08446		mg/Kg		85	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.07873		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1496		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U	0.0996	0.07424		mg/Kg		75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 890-2643-A-3-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.1006		mg/Kg		101	70 - 130	2	35
Toluene	<0.00201	U	0.0994	0.08184		mg/Kg		82	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0994	0.07496		mg/Kg		75	70 - 130	5	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1428		mg/Kg		72	70 - 130	5	35
o-Xylene	<0.00201	U	0.0994	0.07202		mg/Kg		72	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*

Lab Sample ID: MB 880-31195/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31195**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:03	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-31195/5-A
Matrix: Solid
Analysis Batch: 31376

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31195

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/22 13:58	08/03/22 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*08/01/22 13:58*	*08/03/22 11:03*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/01/22 13:58*	*08/03/22 11:03*	*1*

Lab Sample ID: LCS 880-31195/1-A
Matrix: Solid
Analysis Batch: 31376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31195

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08360		mg/Kg		84	70 - 130		
Toluene			0.100	0.08483		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.08445		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene			0.200	0.1629		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.07995		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-31195/2-A
Matrix: Solid
Analysis Batch: 31376

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31195

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09268		mg/Kg		93	70 - 130	10	35
Toluene			0.100	0.07755		mg/Kg		78	70 - 130	9	35
Ethylbenzene			0.100	0.07387		mg/Kg		74	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1433		mg/Kg		72	70 - 130	13	35
o-Xylene			0.100	0.07307		mg/Kg		73	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 890-2642-1 MS
Matrix: Solid
Analysis Batch: 31376

Client Sample ID: SW-46 (0-5')
Prep Type: Total/NA
Prep Batch: 31195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.1148		mg/Kg		114	70 - 130		
Toluene	<0.00199	U	0.101	0.09005		mg/Kg		90	70 - 130		
Ethylbenzene	<0.00199	U F1	0.101	0.06793	F1	mg/Kg		68	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1539		mg/Kg		76	70 - 130		
o-Xylene	<0.00199	U	0.101	0.08277		mg/Kg		82	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2642-1 MS
Matrix: Solid
Analysis Batch: 31376

Client Sample ID: SW-46 (0-5')
Prep Type: Total/NA
Prep Batch: 31195

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 890-2642-1 MSD
Matrix: Solid
Analysis Batch: 31376

Client Sample ID: SW-46 (0-5')
Prep Type: Total/NA
Prep Batch: 31195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1115		mg/Kg		111	70 - 130	3	35
Toluene	<0.00199	U	0.100	0.08839		mg/Kg		88	70 - 130	2	35
Ethylbenzene	<0.00199	U F1	0.100	0.06289	F1	mg/Kg		63	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1540		mg/Kg		77	70 - 130	0	35
o-Xylene	<0.00199	U	0.100	0.08118		mg/Kg		81	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-30926/1-A
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30926

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 09:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 09:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:35	07/29/22 09:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*97*		*70 - 130*	*07/28/22 13:35*	*07/29/22 09:17*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*07/28/22 13:35*	*07/29/22 09:17*	*1*

Lab Sample ID: LCS 880-30926/2-A
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30926

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			1000	1013		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-30926/3-A
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30926

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10			1000	1067		mg/Kg		107	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1106		mg/Kg		111	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*107*		*70 - 130*
o-Terphenyl (Surr)	*114*		*70 - 130*

Lab Sample ID: 890-2642-1 MS
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: SW-46 (0-5')
Prep Type: Total/NA
Prep Batch: 30926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C10	<49.9	U	999	1117		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	816.2		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*90*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-2642-1 MSD
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: SW-46 (0-5')
Prep Type: Total/NA
Prep Batch: 30926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10	<49.9	U	999	1136		mg/Kg		114	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	838.0		mg/Kg		84	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*91*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 880-30935/1-A
Matrix: Solid
Analysis Batch: 31087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30935

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 10:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 10:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:42	07/31/22 10:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*07/28/22 15:42*	*07/31/22 10:23*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*07/28/22 15:42*	*07/31/22 10:23*	*1*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-30935/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31087 — **Prep Batch: 30935**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			1000	965.3		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	947.3		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*89*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-30935/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31087 — **Prep Batch: 30935**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10			1000	1037		mg/Kg		104	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	972.3		mg/Kg		97	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*88*		*70 - 130*
o-Terphenyl (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-2642-21 MS — **Client Sample ID: SW-86 (0-4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31087 — **Prep Batch: 30935**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10	<49.9	U F2	999	1050		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	767.8		mg/Kg		77	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*82*		*70 - 130*
o-Terphenyl (Surr)	*76*		*70 - 130*

Lab Sample ID: 890-2642-21 MSD — **Client Sample ID: SW-86 (0-4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31087 — **Prep Batch: 30935**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10	<49.9	U F2	999	848.8	F2	mg/Kg		83	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	729.2		mg/Kg		73	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*78*		*70 - 130*
o-Terphenyl (Surr)	*73*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-30936/1-A
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30936

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 19:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 19:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 15:45	07/29/22 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*07/28/22 15:45*	*07/29/22 19:56*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*07/28/22 15:45*	*07/29/22 19:56*	*1*

Lab Sample ID: LCS 880-30936/2-A
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30936

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			1000	936.6		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1038		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*102*		*70 - 130*
o-Terphenyl (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-30936/3-A
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30936

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10			1000	1051		mg/Kg		105	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1076		mg/Kg		108	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Lab Sample ID: 890-2642-41 MS
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: BH-68 (1')
Prep Type: Total/NA
Prep Batch: 30936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10	<49.9	U F1 F2	999	1138		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	815.6		mg/Kg		82	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*93*		*70 - 130*
o-Terphenyl (Surr)	*93*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2642-41 MSD **Client Sample ID: BH-68 (1')**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30956 **Prep Batch: 30936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10	<49.9	U F1 F2	999	1401	F1 F2	mg/Kg		136	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	963.2		mg/Kg		96	70 - 130	17	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*109*		*70 - 130*
o-Terphenyl (Surr)	*109*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30681/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 30825

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/28/22 12:54	1

Lab Sample ID: LCS 880-30681/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 30825

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	275.0		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-30681/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 30825

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	267.6		mg/Kg		107	90 - 110	3	20

Lab Sample ID: 890-2633-A-1-A MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 30825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	63.5		249	288.0		mg/Kg		90	90 - 110		

Lab Sample ID: 890-2633-A-1-A MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 30825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	63.5		249	288.4		mg/Kg		90	90 - 110	0	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2642-46 MS
Matrix: Solid
Analysis Batch: 30825

Client Sample ID: BH-73 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.71		250	249.9		mg/Kg		97	90 - 110

Lab Sample ID: 890-2642-46 MSD
Matrix: Solid
Analysis Batch: 30825

Client Sample ID: BH-73 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.71		250	249.8		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-30685/1-A
Matrix: Solid
Analysis Batch: 30921

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/30/22 03:31	1

Lab Sample ID: LCS 880-30685/2-A
Matrix: Solid
Analysis Batch: 30921

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	261.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-30685/3-A
Matrix: Solid
Analysis Batch: 30921

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.4		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-2642-21 MS
Matrix: Solid
Analysis Batch: 30921

Client Sample ID: SW-86 (0-4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.72		248	245.8		mg/Kg		97	90 - 110

Lab Sample ID: 890-2642-21 MSD
Matrix: Solid
Analysis Batch: 30921

Client Sample ID: SW-86 (0-4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.72		248	244.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-2642-31 MS
Matrix: Solid
Analysis Batch: 30921

Client Sample ID: BH-51 (5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	39.2		248	273.5		mg/Kg		94	90 - 110

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2642-31 MSD
Matrix: Solid
Analysis Batch: 30921

Client Sample ID: BH-51 (5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	39.2		248	278.7		mg/Kg		97	90 - 110	2	20

Lab Sample ID: MB 880-30684/1-A
Matrix: Solid
Analysis Batch: 30922

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/30/22 08:54	1

Lab Sample ID: LCS 880-30684/2-A
Matrix: Solid
Analysis Batch: 30922

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.8		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-30684/3-A
Matrix: Solid
Analysis Batch: 30922

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	264.9		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-2642-1 MS
Matrix: Solid
Analysis Batch: 30922

Client Sample ID: SW-46 (0-5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	25.4		250	273.0		mg/Kg		99	90 - 110		

Lab Sample ID: 890-2642-1 MSD
Matrix: Solid
Analysis Batch: 30922

Client Sample ID: SW-46 (0-5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.4		250	272.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-2642-11 MS
Matrix: Solid
Analysis Batch: 30922

Client Sample ID: SW-76 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	101		250	349.7		mg/Kg		100	90 - 110		

Lab Sample ID: 890-2642-11 MSD
Matrix: Solid
Analysis Batch: 30922

Client Sample ID: SW-76 (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	101		250	348.9		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC VOA

Prep Batch: 30914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-30914/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30914/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30914/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17204-A-219-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17204-A-219-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 31023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-18	SW-83 (0-4')	Total/NA	Solid	5035	
890-2642-20	SW-85 (0-4')	Total/NA	Solid	5035	
MB 880-31023/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31023/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31023/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17512-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17512-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 31025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-10	SW-75 (0-1')	Total/NA	Solid	5035	
890-2642-11	SW-76 (0-1')	Total/NA	Solid	5035	
890-2642-12	SW-77 (0-1')	Total/NA	Solid	5035	
890-2642-13	SW-78 (0-1')	Total/NA	Solid	5035	
890-2642-14	SW-79 (0-1')	Total/NA	Solid	5035	
890-2642-15	SW-80 (0-4')	Total/NA	Solid	5035	
890-2642-16	SW-81 (0-4')	Total/NA	Solid	5035	
890-2642-17	SW-82 (0-4')	Total/NA	Solid	5035	
890-2642-37	BH-57 (5')	Total/NA	Solid	5035	
890-2642-38	BH-65 (1')	Total/NA	Solid	5035	
890-2642-39	BH-66 (1')	Total/NA	Solid	5035	
890-2642-40	BH-67 (1')	Total/NA	Solid	5035	
890-2642-41	BH-68 (1')	Total/NA	Solid	5035	
890-2642-42	BH-69 (1')	Total/NA	Solid	5035	
890-2642-43	BH-70 (1')	Total/NA	Solid	5035	
890-2642-44	BH-71 (1')	Total/NA	Solid	5035	
890-2642-45	BH-72 (1')	Total/NA	Solid	5035	
MB 880-31025/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31025/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31025/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2642-10 MS	SW-75 (0-1')	Total/NA	Solid	5035	
890-2642-10 MSD	SW-75 (0-1')	Total/NA	Solid	5035	

Prep Batch: 31030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-51	BH-78 (4')	Total/NA	Solid	5035	
890-2642-52	BH-79 (4')	Total/NA	Solid	5035	
890-2642-53	BH-80 (4')	Total/NA	Solid	5035	
890-2642-54	BH-81 (4')	Total/NA	Solid	5035	
890-2642-55	HD-2 (0-1')	Total/NA	Solid	5035	
MB 880-31030/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31030/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31030/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 31030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-51 MS	BH-78 (4')	Total/NA	Solid	5035	
890-2642-51 MSD	BH-78 (4')	Total/NA	Solid	5035	

Analysis Batch: 31148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-19	SW-84 (0-4')	Total/NA	Solid	8021B	31170
890-2642-21	SW-86 (0-4')	Total/NA	Solid	8021B	31170
890-2642-22	SW-87 (0-4')	Total/NA	Solid	8021B	31170
890-2642-23	SW-88 (0-4')	Total/NA	Solid	8021B	31170
890-2642-24	SW-89 (0-4')	Total/NA	Solid	8021B	31170
890-2642-25	SW-90 (0-4')	Total/NA	Solid	8021B	31170
890-2642-26	SW-91 (0-4')	Total/NA	Solid	8021B	31170
890-2642-27	SW-92 (0-4')	Total/NA	Solid	8021B	31170
890-2642-28	SW-93 (0-4')	Total/NA	Solid	8021B	31170
890-2642-46	BH-73 (1')	Total/NA	Solid	8021B	31170
890-2642-47	BH-74 (4')	Total/NA	Solid	8021B	31170
890-2642-48	BH-75 (4')	Total/NA	Solid	8021B	31170
890-2642-49	BH-76 (4')	Total/NA	Solid	8021B	31170
890-2642-50	BH-77 (4')	Total/NA	Solid	8021B	31170
MB 880-31155/5-A	Method Blank	Total/NA	Solid	8021B	31155
MB 880-31170/5-A	Method Blank	Total/NA	Solid	8021B	31170
LCS 880-31170/1-A	Lab Control Sample	Total/NA	Solid	8021B	31170
LCSD 880-31155/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31155
LCSD 880-31170/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31170
890-2688-A-22-B MS	Matrix Spike	Total/NA	Solid	8021B	31170
890-2688-A-22-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31170

Analysis Batch: 31149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-10	SW-75 (0-1')	Total/NA	Solid	8021B	31025
890-2642-11	SW-76 (0-1')	Total/NA	Solid	8021B	31025
890-2642-12	SW-77 (0-1')	Total/NA	Solid	8021B	31025
890-2642-13	SW-78 (0-1')	Total/NA	Solid	8021B	31025
890-2642-14	SW-79 (0-1')	Total/NA	Solid	8021B	31025
890-2642-15	SW-80 (0-4')	Total/NA	Solid	8021B	31025
890-2642-16	SW-81 (0-4')	Total/NA	Solid	8021B	31025
890-2642-17	SW-82 (0-4')	Total/NA	Solid	8021B	31025
890-2642-37	BH-57 (5')	Total/NA	Solid	8021B	31025
890-2642-38	BH-65 (1')	Total/NA	Solid	8021B	31025
890-2642-39	BH-66 (1')	Total/NA	Solid	8021B	31025
890-2642-40	BH-67 (1')	Total/NA	Solid	8021B	31025
890-2642-41	BH-68 (1')	Total/NA	Solid	8021B	31025
890-2642-42	BH-69 (1')	Total/NA	Solid	8021B	31025
890-2642-43	BH-70 (1')	Total/NA	Solid	8021B	31025
890-2642-44	BH-71 (1')	Total/NA	Solid	8021B	31025
890-2642-45	BH-72 (1')	Total/NA	Solid	8021B	31025
MB 880-30914/5-A	Method Blank	Total/NA	Solid	8021B	30914
MB 880-31025/5-A	Method Blank	Total/NA	Solid	8021B	31025
LCS 880-30914/1-A	Lab Control Sample	Total/NA	Solid	8021B	30914
LCS 880-31025/1-A	Lab Control Sample	Total/NA	Solid	8021B	31025
LCSD 880-30914/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30914

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 31149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-31025/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31025
880-17204-A-219-D MS	Matrix Spike	Total/NA	Solid	8021B	30914
880-17204-A-219-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30914
890-2642-10 MS	SW-75 (0-1')	Total/NA	Solid	8021B	31025
890-2642-10 MSD	SW-75 (0-1')	Total/NA	Solid	8021B	31025

Prep Batch: 31155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31155/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-31155/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 31170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-19	SW-84 (0-4')	Total/NA	Solid	5035	
890-2642-21	SW-86 (0-4')	Total/NA	Solid	5035	
890-2642-22	SW-87 (0-4')	Total/NA	Solid	5035	
890-2642-23	SW-88 (0-4')	Total/NA	Solid	5035	
890-2642-24	SW-89 (0-4')	Total/NA	Solid	5035	
890-2642-25	SW-90 (0-4')	Total/NA	Solid	5035	
890-2642-26	SW-91 (0-4')	Total/NA	Solid	5035	
890-2642-27	SW-92 (0-4')	Total/NA	Solid	5035	
890-2642-28	SW-93 (0-4')	Total/NA	Solid	5035	
890-2642-46	BH-73 (1')	Total/NA	Solid	5035	
890-2642-47	BH-74 (4')	Total/NA	Solid	5035	
890-2642-48	BH-75 (4')	Total/NA	Solid	5035	
890-2642-49	BH-76 (4')	Total/NA	Solid	5035	
890-2642-50	BH-77 (4')	Total/NA	Solid	5035	
MB 880-31170/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31170/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31170/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2688-A-22-B MS	Matrix Spike	Total/NA	Solid	5035	
890-2688-A-22-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 31190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2643-A-3-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2643-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-18	SW-83 (0-4')	Total/NA	Solid	8021B	31023
890-2642-20	SW-85 (0-4')	Total/NA	Solid	8021B	31023
890-2642-51	BH-78 (4')	Total/NA	Solid	8021B	31030
890-2642-52	BH-79 (4')	Total/NA	Solid	8021B	31030
890-2642-53	BH-80 (4')	Total/NA	Solid	8021B	31030
890-2642-54	BH-81 (4')	Total/NA	Solid	8021B	31030
890-2642-55	HD-2 (0-1')	Total/NA	Solid	8021B	31030
MB 880-31023/5-A	Method Blank	Total/NA	Solid	8021B	31023

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 31193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31030/5-A	Method Blank	Total/NA	Solid	8021B	31030
LCS 880-31023/1-A	Lab Control Sample	Total/NA	Solid	8021B	31023
LCS 880-31030/1-A	Lab Control Sample	Total/NA	Solid	8021B	31030
LCSD 880-31023/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31023
LCSD 880-31030/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31030
880-17512-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	31023
880-17512-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31023
890-2642-51 MS	BH-78 (4')	Total/NA	Solid	8021B	31030
890-2642-51 MSD	BH-78 (4')	Total/NA	Solid	8021B	31030

Prep Batch: 31195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-1	SW-46 (0-5')	Total/NA	Solid	5035	
890-2642-2	SW-47 (0-5')	Total/NA	Solid	5035	
890-2642-3	SW-48 (0-5')	Total/NA	Solid	5035	
890-2642-4	SW-49 (0-5')	Total/NA	Solid	5035	
890-2642-5	SW-50 (0-5')	Total/NA	Solid	5035	
890-2642-6	SW-51 (0-5')	Total/NA	Solid	5035	
890-2642-7	SW-52 (0-5')	Total/NA	Solid	5035	
890-2642-8	SW-53 (0-5')	Total/NA	Solid	5035	
890-2642-9	SW-56 (0-5')	Total/NA	Solid	5035	
890-2642-29	BH-49 (5')	Total/NA	Solid	5035	
890-2642-30	BH-50 (5')	Total/NA	Solid	5035	
890-2642-31	BH-51 (5')	Total/NA	Solid	5035	
890-2642-32	BH-52 (5')	Total/NA	Solid	5035	
890-2642-33	BH-53 (5')	Total/NA	Solid	5035	
890-2642-34	BH-54 (5')	Total/NA	Solid	5035	
890-2642-35	BH-55 (5')	Total/NA	Solid	5035	
890-2642-36	BH-56 (5')	Total/NA	Solid	5035	
MB 880-31195/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31195/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31195/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2642-1 MS	SW-46 (0-5')	Total/NA	Solid	5035	
890-2642-1 MSD	SW-46 (0-5')	Total/NA	Solid	5035	

Analysis Batch: 31224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-1	SW-46 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-2	SW-47 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-3	SW-48 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-4	SW-49 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-5	SW-50 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-6	SW-51 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-7	SW-52 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-8	SW-53 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-9	SW-56 (0-5')	Total/NA	Solid	Total BTEX	
890-2642-10	SW-75 (0-1')	Total/NA	Solid	Total BTEX	
890-2642-11	SW-76 (0-1')	Total/NA	Solid	Total BTEX	
890-2642-12	SW-77 (0-1')	Total/NA	Solid	Total BTEX	
890-2642-13	SW-78 (0-1')	Total/NA	Solid	Total BTEX	
890-2642-14	SW-79 (0-1')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 31224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-15	SW-80 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-16	SW-81 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-17	SW-82 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-18	SW-83 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-19	SW-84 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-20	SW-85 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-21	SW-86 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-22	SW-87 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-23	SW-88 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-24	SW-89 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-25	SW-90 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-26	SW-91 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-27	SW-92 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-28	SW-93 (0-4')	Total/NA	Solid	Total BTEX	
890-2642-29	BH-49 (5')	Total/NA	Solid	Total BTEX	
890-2642-30	BH-50 (5')	Total/NA	Solid	Total BTEX	
890-2642-31	BH-51 (5')	Total/NA	Solid	Total BTEX	
890-2642-32	BH-52 (5')	Total/NA	Solid	Total BTEX	
890-2642-33	BH-53 (5')	Total/NA	Solid	Total BTEX	
890-2642-34	BH-54 (5')	Total/NA	Solid	Total BTEX	
890-2642-35	BH-55 (5')	Total/NA	Solid	Total BTEX	
890-2642-36	BH-56 (5')	Total/NA	Solid	Total BTEX	
890-2642-37	BH-57 (5')	Total/NA	Solid	Total BTEX	
890-2642-38	BH-65 (1')	Total/NA	Solid	Total BTEX	
890-2642-39	BH-66 (1')	Total/NA	Solid	Total BTEX	
890-2642-40	BH-67 (1')	Total/NA	Solid	Total BTEX	
890-2642-41	BH-68 (1')	Total/NA	Solid	Total BTEX	
890-2642-42	BH-69 (1')	Total/NA	Solid	Total BTEX	
890-2642-43	BH-70 (1')	Total/NA	Solid	Total BTEX	
890-2642-44	BH-71 (1')	Total/NA	Solid	Total BTEX	
890-2642-45	BH-72 (1')	Total/NA	Solid	Total BTEX	
890-2642-46	BH-73 (1')	Total/NA	Solid	Total BTEX	
890-2642-47	BH-74 (4')	Total/NA	Solid	Total BTEX	
890-2642-48	BH-75 (4')	Total/NA	Solid	Total BTEX	
890-2642-49	BH-76 (4')	Total/NA	Solid	Total BTEX	
890-2642-50	BH-77 (4')	Total/NA	Solid	Total BTEX	
890-2642-51	BH-78 (4')	Total/NA	Solid	Total BTEX	
890-2642-52	BH-79 (4')	Total/NA	Solid	Total BTEX	
890-2642-53	BH-80 (4')	Total/NA	Solid	Total BTEX	
890-2642-54	BH-81 (4')	Total/NA	Solid	Total BTEX	
890-2642-55	HD-2 (0-1')	Total/NA	Solid	Total BTEX	

Analysis Batch: 31376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-1	SW-46 (0-5')	Total/NA	Solid	8021B	31195
890-2642-2	SW-47 (0-5')	Total/NA	Solid	8021B	31195
890-2642-3	SW-48 (0-5')	Total/NA	Solid	8021B	31195
890-2642-4	SW-49 (0-5')	Total/NA	Solid	8021B	31195
890-2642-5	SW-50 (0-5')	Total/NA	Solid	8021B	31195
890-2642-6	SW-51 (0-5')	Total/NA	Solid	8021B	31195
890-2642-7	SW-52 (0-5')	Total/NA	Solid	8021B	31195

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 31376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-8	SW-53 (0-5')	Total/NA	Solid	8021B	31195
890-2642-9	SW-56 (0-5')	Total/NA	Solid	8021B	31195
890-2642-29	BH-49 (5')	Total/NA	Solid	8021B	31195
890-2642-30	BH-50 (5')	Total/NA	Solid	8021B	31195
890-2642-31	BH-51 (5')	Total/NA	Solid	8021B	31195
890-2642-32	BH-52 (5')	Total/NA	Solid	8021B	31195
890-2642-33	BH-53 (5')	Total/NA	Solid	8021B	31195
890-2642-34	BH-54 (5')	Total/NA	Solid	8021B	31195
890-2642-35	BH-55 (5')	Total/NA	Solid	8021B	31195
890-2642-36	BH-56 (5')	Total/NA	Solid	8021B	31195
MB 880-31190/5-A	Method Blank	Total/NA	Solid	8021B	31190
MB 880-31195/5-A	Method Blank	Total/NA	Solid	8021B	31195
LCS 880-31190/1-A	Lab Control Sample	Total/NA	Solid	8021B	31190
LCS 880-31195/1-A	Lab Control Sample	Total/NA	Solid	8021B	31195
LCSD 880-31190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31190
LCSD 880-31195/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31195
890-2642-1 MS	SW-46 (0-5')	Total/NA	Solid	8021B	31195
890-2642-1 MSD	SW-46 (0-5')	Total/NA	Solid	8021B	31195
890-2643-A-3-D MS	Matrix Spike	Total/NA	Solid	8021B	31190
890-2643-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31190

GC Semi VOA

Prep Batch: 30926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-1	SW-46 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-2	SW-47 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-3	SW-48 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-4	SW-49 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-5	SW-50 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-6	SW-51 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-7	SW-52 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-8	SW-53 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-9	SW-56 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-10	SW-75 (0-1')	Total/NA	Solid	8015NM Prep	
890-2642-11	SW-76 (0-1')	Total/NA	Solid	8015NM Prep	
890-2642-12	SW-77 (0-1')	Total/NA	Solid	8015NM Prep	
890-2642-13	SW-78 (0-1')	Total/NA	Solid	8015NM Prep	
890-2642-14	SW-79 (0-1')	Total/NA	Solid	8015NM Prep	
890-2642-15	SW-80 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-16	SW-81 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-17	SW-82 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-18	SW-83 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-19	SW-84 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-20	SW-85 (0-4')	Total/NA	Solid	8015NM Prep	
MB 880-30926/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30926/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2642-1 MS	SW-46 (0-5')	Total/NA	Solid	8015NM Prep	
890-2642-1 MSD	SW-46 (0-5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC Semi VOA

Prep Batch: 30935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-21	SW-86 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-22	SW-87 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-23	SW-88 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-24	SW-89 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-25	SW-90 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-26	SW-91 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-27	SW-92 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-28	SW-93 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-29	BH-49 (5')	Total/NA	Solid	8015NM Prep	
890-2642-30	BH-50 (5')	Total/NA	Solid	8015NM Prep	
890-2642-31	BH-51 (5')	Total/NA	Solid	8015NM Prep	
890-2642-32	BH-52 (5')	Total/NA	Solid	8015NM Prep	
890-2642-33	BH-53 (5')	Total/NA	Solid	8015NM Prep	
890-2642-34	BH-54 (5')	Total/NA	Solid	8015NM Prep	
890-2642-35	BH-55 (5')	Total/NA	Solid	8015NM Prep	
890-2642-36	BH-56 (5')	Total/NA	Solid	8015NM Prep	
890-2642-37	BH-57 (5')	Total/NA	Solid	8015NM Prep	
890-2642-38	BH-65 (1')	Total/NA	Solid	8015NM Prep	
890-2642-39	BH-66 (1')	Total/NA	Solid	8015NM Prep	
890-2642-40	BH-67 (1')	Total/NA	Solid	8015NM Prep	
MB 880-30935/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30935/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2642-21 MS	SW-86 (0-4')	Total/NA	Solid	8015NM Prep	
890-2642-21 MSD	SW-86 (0-4')	Total/NA	Solid	8015NM Prep	

Prep Batch: 30936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-41	BH-68 (1')	Total/NA	Solid	8015NM Prep	
890-2642-42	BH-69 (1')	Total/NA	Solid	8015NM Prep	
890-2642-43	BH-70 (1')	Total/NA	Solid	8015NM Prep	
890-2642-44	BH-71 (1')	Total/NA	Solid	8015NM Prep	
890-2642-45	BH-72 (1')	Total/NA	Solid	8015NM Prep	
890-2642-46	BH-73 (1')	Total/NA	Solid	8015NM Prep	
890-2642-47	BH-74 (4')	Total/NA	Solid	8015NM Prep	
890-2642-48	BH-75 (4')	Total/NA	Solid	8015NM Prep	
890-2642-49	BH-76 (4')	Total/NA	Solid	8015NM Prep	
890-2642-50	BH-77 (4')	Total/NA	Solid	8015NM Prep	
890-2642-51	BH-78 (4')	Total/NA	Solid	8015NM Prep	
890-2642-52	BH-79 (4')	Total/NA	Solid	8015NM Prep	
890-2642-53	BH-80 (4')	Total/NA	Solid	8015NM Prep	
890-2642-54	BH-81 (4')	Total/NA	Solid	8015NM Prep	
890-2642-55	HD-2 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-30936/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30936/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30936/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2642-41 MS	BH-68 (1')	Total/NA	Solid	8015NM Prep	
890-2642-41 MSD	BH-68 (1')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 30956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-1	SW-46 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-2	SW-47 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-3	SW-48 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-4	SW-49 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-5	SW-50 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-6	SW-51 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-7	SW-52 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-8	SW-53 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-9	SW-56 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-10	SW-75 (0-1')	Total/NA	Solid	8015B NM	30926
890-2642-11	SW-76 (0-1')	Total/NA	Solid	8015B NM	30926
890-2642-12	SW-77 (0-1')	Total/NA	Solid	8015B NM	30926
890-2642-13	SW-78 (0-1')	Total/NA	Solid	8015B NM	30926
890-2642-14	SW-79 (0-1')	Total/NA	Solid	8015B NM	30926
890-2642-15	SW-80 (0-4')	Total/NA	Solid	8015B NM	30926
890-2642-16	SW-81 (0-4')	Total/NA	Solid	8015B NM	30926
890-2642-17	SW-82 (0-4')	Total/NA	Solid	8015B NM	30926
890-2642-18	SW-83 (0-4')	Total/NA	Solid	8015B NM	30926
890-2642-19	SW-84 (0-4')	Total/NA	Solid	8015B NM	30926
890-2642-20	SW-85 (0-4')	Total/NA	Solid	8015B NM	30926
890-2642-41	BH-68 (1')	Total/NA	Solid	8015B NM	30936
890-2642-42	BH-69 (1')	Total/NA	Solid	8015B NM	30936
890-2642-43	BH-70 (1')	Total/NA	Solid	8015B NM	30936
890-2642-44	BH-71 (1')	Total/NA	Solid	8015B NM	30936
890-2642-45	BH-72 (1')	Total/NA	Solid	8015B NM	30936
890-2642-46	BH-73 (1')	Total/NA	Solid	8015B NM	30936
890-2642-47	BH-74 (4')	Total/NA	Solid	8015B NM	30936
890-2642-48	BH-75 (4')	Total/NA	Solid	8015B NM	30936
890-2642-49	BH-76 (4')	Total/NA	Solid	8015B NM	30936
890-2642-50	BH-77 (4')	Total/NA	Solid	8015B NM	30936
890-2642-51	BH-78 (4')	Total/NA	Solid	8015B NM	30936
890-2642-52	BH-79 (4')	Total/NA	Solid	8015B NM	30936
890-2642-53	BH-80 (4')	Total/NA	Solid	8015B NM	30936
890-2642-54	BH-81 (4')	Total/NA	Solid	8015B NM	30936
890-2642-55	HD-2 (0-1')	Total/NA	Solid	8015B NM	30936
MB 880-30926/1-A	Method Blank	Total/NA	Solid	8015B NM	30926
MB 880-30936/1-A	Method Blank	Total/NA	Solid	8015B NM	30936
LCS 880-30926/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30926
LCS 880-30936/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30936
LCSD 880-30926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30926
LCSD 880-30936/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30936
890-2642-1 MS	SW-46 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-1 MSD	SW-46 (0-5')	Total/NA	Solid	8015B NM	30926
890-2642-41 MS	BH-68 (1')	Total/NA	Solid	8015B NM	30936
890-2642-41 MSD	BH-68 (1')	Total/NA	Solid	8015B NM	30936

Analysis Batch: 31064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-1	SW-46 (0-5')	Total/NA	Solid	8015 NM	
890-2642-2	SW-47 (0-5')	Total/NA	Solid	8015 NM	
890-2642-3	SW-48 (0-5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 31064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-4	SW-49 (0-5')	Total/NA	Solid	8015 NM	
890-2642-5	SW-50 (0-5')	Total/NA	Solid	8015 NM	
890-2642-6	SW-51 (0-5')	Total/NA	Solid	8015 NM	
890-2642-7	SW-52 (0-5')	Total/NA	Solid	8015 NM	
890-2642-8	SW-53 (0-5')	Total/NA	Solid	8015 NM	
890-2642-9	SW-56 (0-5')	Total/NA	Solid	8015 NM	
890-2642-10	SW-75 (0-1')	Total/NA	Solid	8015 NM	
890-2642-11	SW-76 (0-1')	Total/NA	Solid	8015 NM	
890-2642-12	SW-77 (0-1')	Total/NA	Solid	8015 NM	
890-2642-13	SW-78 (0-1')	Total/NA	Solid	8015 NM	
890-2642-14	SW-79 (0-1')	Total/NA	Solid	8015 NM	
890-2642-15	SW-80 (0-4')	Total/NA	Solid	8015 NM	
890-2642-16	SW-81 (0-4')	Total/NA	Solid	8015 NM	
890-2642-17	SW-82 (0-4')	Total/NA	Solid	8015 NM	
890-2642-18	SW-83 (0-4')	Total/NA	Solid	8015 NM	
890-2642-19	SW-84 (0-4')	Total/NA	Solid	8015 NM	
890-2642-20	SW-85 (0-4')	Total/NA	Solid	8015 NM	
890-2642-21	SW-86 (0-4')	Total/NA	Solid	8015 NM	
890-2642-22	SW-87 (0-4')	Total/NA	Solid	8015 NM	
890-2642-23	SW-88 (0-4')	Total/NA	Solid	8015 NM	
890-2642-24	SW-89 (0-4')	Total/NA	Solid	8015 NM	
890-2642-25	SW-90 (0-4')	Total/NA	Solid	8015 NM	
890-2642-26	SW-91 (0-4')	Total/NA	Solid	8015 NM	
890-2642-27	SW-92 (0-4')	Total/NA	Solid	8015 NM	
890-2642-28	SW-93 (0-4')	Total/NA	Solid	8015 NM	
890-2642-29	BH-49 (5')	Total/NA	Solid	8015 NM	
890-2642-30	BH-50 (5')	Total/NA	Solid	8015 NM	
890-2642-31	BH-51 (5')	Total/NA	Solid	8015 NM	
890-2642-32	BH-52 (5')	Total/NA	Solid	8015 NM	
890-2642-33	BH-53 (5')	Total/NA	Solid	8015 NM	
890-2642-34	BH-54 (5')	Total/NA	Solid	8015 NM	
890-2642-35	BH-55 (5')	Total/NA	Solid	8015 NM	
890-2642-36	BH-56 (5')	Total/NA	Solid	8015 NM	
890-2642-37	BH-57 (5')	Total/NA	Solid	8015 NM	
890-2642-38	BH-65 (1')	Total/NA	Solid	8015 NM	
890-2642-39	BH-66 (1')	Total/NA	Solid	8015 NM	
890-2642-40	BH-67 (1')	Total/NA	Solid	8015 NM	
890-2642-41	BH-68 (1')	Total/NA	Solid	8015 NM	
890-2642-42	BH-69 (1')	Total/NA	Solid	8015 NM	
890-2642-43	BH-70 (1')	Total/NA	Solid	8015 NM	
890-2642-44	BH-71 (1')	Total/NA	Solid	8015 NM	
890-2642-45	BH-72 (1')	Total/NA	Solid	8015 NM	
890-2642-46	BH-73 (1')	Total/NA	Solid	8015 NM	
890-2642-47	BH-74 (4')	Total/NA	Solid	8015 NM	
890-2642-48	BH-75 (4')	Total/NA	Solid	8015 NM	
890-2642-49	BH-76 (4')	Total/NA	Solid	8015 NM	
890-2642-50	BH-77 (4')	Total/NA	Solid	8015 NM	
890-2642-51	BH-78 (4')	Total/NA	Solid	8015 NM	
890-2642-52	BH-79 (4')	Total/NA	Solid	8015 NM	
890-2642-53	BH-80 (4')	Total/NA	Solid	8015 NM	
890-2642-54	BH-81 (4')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 31064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-55	HD-2 (0-1')	Total/NA	Solid	8015 NM	

Analysis Batch: 31087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-21	SW-86 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-22	SW-87 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-23	SW-88 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-24	SW-89 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-25	SW-90 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-26	SW-91 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-27	SW-92 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-28	SW-93 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-29	BH-49 (5')	Total/NA	Solid	8015B NM	30935
890-2642-30	BH-50 (5')	Total/NA	Solid	8015B NM	30935
890-2642-31	BH-51 (5')	Total/NA	Solid	8015B NM	30935
890-2642-32	BH-52 (5')	Total/NA	Solid	8015B NM	30935
890-2642-33	BH-53 (5')	Total/NA	Solid	8015B NM	30935
890-2642-34	BH-54 (5')	Total/NA	Solid	8015B NM	30935
890-2642-35	BH-55 (5')	Total/NA	Solid	8015B NM	30935
890-2642-36	BH-56 (5')	Total/NA	Solid	8015B NM	30935
890-2642-37	BH-57 (5')	Total/NA	Solid	8015B NM	30935
890-2642-38	BH-65 (1')	Total/NA	Solid	8015B NM	30935
890-2642-39	BH-66 (1')	Total/NA	Solid	8015B NM	30935
890-2642-40	BH-67 (1')	Total/NA	Solid	8015B NM	30935
MB 880-30935/1-A	Method Blank	Total/NA	Solid	8015B NM	30935
LCS 880-30935/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30935
LCSD 880-30935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30935
890-2642-21 MS	SW-86 (0-4')	Total/NA	Solid	8015B NM	30935
890-2642-21 MSD	SW-86 (0-4')	Total/NA	Solid	8015B NM	30935

HPLC/IC

Leach Batch: 30681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-41	BH-68 (1')	Soluble	Solid	DI Leach	
890-2642-42	BH-69 (1')	Soluble	Solid	DI Leach	
890-2642-43	BH-70 (1')	Soluble	Solid	DI Leach	
890-2642-44	BH-71 (1')	Soluble	Solid	DI Leach	
890-2642-45	BH-72 (1')	Soluble	Solid	DI Leach	
890-2642-46	BH-73 (1')	Soluble	Solid	DI Leach	
890-2642-47	BH-74 (4')	Soluble	Solid	DI Leach	
890-2642-48	BH-75 (4')	Soluble	Solid	DI Leach	
890-2642-49	BH-76 (4')	Soluble	Solid	DI Leach	
890-2642-50	BH-77 (4')	Soluble	Solid	DI Leach	
890-2642-51	BH-78 (4')	Soluble	Solid	DI Leach	
890-2642-52	BH-79 (4')	Soluble	Solid	DI Leach	
890-2642-53	BH-80 (4')	Soluble	Solid	DI Leach	
890-2642-54	BH-81 (4')	Soluble	Solid	DI Leach	
890-2642-55	HD-2 (0-1')	Soluble	Solid	DI Leach	
MB 880-30681/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30681/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 30681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-30681/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2633-A-1-A MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2633-A-1-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2642-46 MS	BH-73 (1')	Soluble	Solid	DI Leach	
890-2642-46 MSD	BH-73 (1')	Soluble	Solid	DI Leach	

Leach Batch: 30684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-1	SW-46 (0-5')	Soluble	Solid	DI Leach	
890-2642-2	SW-47 (0-5')	Soluble	Solid	DI Leach	
890-2642-3	SW-48 (0-5')	Soluble	Solid	DI Leach	
890-2642-4	SW-49 (0-5')	Soluble	Solid	DI Leach	
890-2642-5	SW-50 (0-5')	Soluble	Solid	DI Leach	
890-2642-6	SW-51 (0-5')	Soluble	Solid	DI Leach	
890-2642-7	SW-52 (0-5')	Soluble	Solid	DI Leach	
890-2642-8	SW-53 (0-5')	Soluble	Solid	DI Leach	
890-2642-9	SW-56 (0-5')	Soluble	Solid	DI Leach	
890-2642-10	SW-75 (0-1')	Soluble	Solid	DI Leach	
890-2642-11	SW-76 (0-1')	Soluble	Solid	DI Leach	
890-2642-12	SW-77 (0-1')	Soluble	Solid	DI Leach	
890-2642-13	SW-78 (0-1')	Soluble	Solid	DI Leach	
890-2642-14	SW-79 (0-1')	Soluble	Solid	DI Leach	
890-2642-15	SW-80 (0-4')	Soluble	Solid	DI Leach	
890-2642-16	SW-81 (0-4')	Soluble	Solid	DI Leach	
890-2642-17	SW-82 (0-4')	Soluble	Solid	DI Leach	
890-2642-18	SW-83 (0-4')	Soluble	Solid	DI Leach	
890-2642-19	SW-84 (0-4')	Soluble	Solid	DI Leach	
890-2642-20	SW-85 (0-4')	Soluble	Solid	DI Leach	
MB 880-30684/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30684/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30684/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2642-1 MS	SW-46 (0-5')	Soluble	Solid	DI Leach	
890-2642-1 MSD	SW-46 (0-5')	Soluble	Solid	DI Leach	
890-2642-11 MS	SW-76 (0-1')	Soluble	Solid	DI Leach	
890-2642-11 MSD	SW-76 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 30685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-21	SW-86 (0-4')	Soluble	Solid	DI Leach	
890-2642-22	SW-87 (0-4')	Soluble	Solid	DI Leach	
890-2642-23	SW-88 (0-4')	Soluble	Solid	DI Leach	
890-2642-24	SW-89 (0-4')	Soluble	Solid	DI Leach	
890-2642-25	SW-90 (0-4')	Soluble	Solid	DI Leach	
890-2642-26	SW-91 (0-4')	Soluble	Solid	DI Leach	
890-2642-27	SW-92 (0-4')	Soluble	Solid	DI Leach	
890-2642-28	SW-93 (0-4')	Soluble	Solid	DI Leach	
890-2642-29	BH-49 (5')	Soluble	Solid	DI Leach	
890-2642-30	BH-50 (5')	Soluble	Solid	DI Leach	
890-2642-31	BH-51 (5')	Soluble	Solid	DI Leach	
890-2642-32	BH-52 (5')	Soluble	Solid	DI Leach	
890-2642-33	BH-53 (5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 30685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-34	BH-54 (5')	Soluble	Solid	DI Leach	
890-2642-35	BH-55 (5')	Soluble	Solid	DI Leach	
890-2642-36	BH-56 (5')	Soluble	Solid	DI Leach	
890-2642-37	BH-57 (5')	Soluble	Solid	DI Leach	
890-2642-38	BH-65 (1')	Soluble	Solid	DI Leach	
890-2642-39	BH-66 (1')	Soluble	Solid	DI Leach	
890-2642-40	BH-67 (1')	Soluble	Solid	DI Leach	
MB 880-30685/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30685/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30685/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2642-21 MS	SW-86 (0-4')	Soluble	Solid	DI Leach	
890-2642-21 MSD	SW-86 (0-4')	Soluble	Solid	DI Leach	
890-2642-31 MS	BH-51 (5')	Soluble	Solid	DI Leach	
890-2642-31 MSD	BH-51 (5')	Soluble	Solid	DI Leach	

Analysis Batch: 30825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-41	BH-68 (1')	Soluble	Solid	300.0	30681
890-2642-42	BH-69 (1')	Soluble	Solid	300.0	30681
890-2642-43	BH-70 (1')	Soluble	Solid	300.0	30681
890-2642-44	BH-71 (1')	Soluble	Solid	300.0	30681
890-2642-45	BH-72 (1')	Soluble	Solid	300.0	30681
890-2642-46	BH-73 (1')	Soluble	Solid	300.0	30681
890-2642-47	BH-74 (4')	Soluble	Solid	300.0	30681
890-2642-48	BH-75 (4')	Soluble	Solid	300.0	30681
890-2642-49	BH-76 (4')	Soluble	Solid	300.0	30681
890-2642-50	BH-77 (4')	Soluble	Solid	300.0	30681
890-2642-51	BH-78 (4')	Soluble	Solid	300.0	30681
890-2642-52	BH-79 (4')	Soluble	Solid	300.0	30681
890-2642-53	BH-80 (4')	Soluble	Solid	300.0	30681
890-2642-54	BH-81 (4')	Soluble	Solid	300.0	30681
890-2642-55	HD-2 (0-1')	Soluble	Solid	300.0	30681
MB 880-30681/1-A	Method Blank	Soluble	Solid	300.0	30681
LCS 880-30681/2-A	Lab Control Sample	Soluble	Solid	300.0	30681
LCSD 880-30681/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30681
890-2633-A-1-A MS	Matrix Spike	Soluble	Solid	300.0	30681
890-2633-A-1-A MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	30681
890-2642-46 MS	BH-73 (1')	Soluble	Solid	300.0	30681
890-2642-46 MSD	BH-73 (1')	Soluble	Solid	300.0	30681

Analysis Batch: 30921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-21	SW-86 (0-4')	Soluble	Solid	300.0	30685
890-2642-22	SW-87 (0-4')	Soluble	Solid	300.0	30685
890-2642-23	SW-88 (0-4')	Soluble	Solid	300.0	30685
890-2642-24	SW-89 (0-4')	Soluble	Solid	300.0	30685
890-2642-25	SW-90 (0-4')	Soluble	Solid	300.0	30685
890-2642-26	SW-91 (0-4')	Soluble	Solid	300.0	30685
890-2642-27	SW-92 (0-4')	Soluble	Solid	300.0	30685
890-2642-28	SW-93 (0-4')	Soluble	Solid	300.0	30685
890-2642-29	BH-49 (5')	Soluble	Solid	300.0	30685

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 30921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-30	BH-50 (5')	Soluble	Solid	300.0	30685
890-2642-31	BH-51 (5')	Soluble	Solid	300.0	30685
890-2642-32	BH-52 (5')	Soluble	Solid	300.0	30685
890-2642-33	BH-53 (5')	Soluble	Solid	300.0	30685
890-2642-34	BH-54 (5')	Soluble	Solid	300.0	30685
890-2642-35	BH-55 (5')	Soluble	Solid	300.0	30685
890-2642-36	BH-56 (5')	Soluble	Solid	300.0	30685
890-2642-37	BH-57 (5')	Soluble	Solid	300.0	30685
890-2642-38	BH-65 (1')	Soluble	Solid	300.0	30685
890-2642-39	BH-66 (1')	Soluble	Solid	300.0	30685
890-2642-40	BH-67 (1')	Soluble	Solid	300.0	30685
MB 880-30685/1-A	Method Blank	Soluble	Solid	300.0	30685
LCS 880-30685/2-A	Lab Control Sample	Soluble	Solid	300.0	30685
LCSD 880-30685/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30685
890-2642-21 MS	SW-86 (0-4')	Soluble	Solid	300.0	30685
890-2642-21 MSD	SW-86 (0-4')	Soluble	Solid	300.0	30685
890-2642-31 MS	BH-51 (5')	Soluble	Solid	300.0	30685
890-2642-31 MSD	BH-51 (5')	Soluble	Solid	300.0	30685

Analysis Batch: 30922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2642-1	SW-46 (0-5')	Soluble	Solid	300.0	30684
890-2642-2	SW-47 (0-5')	Soluble	Solid	300.0	30684
890-2642-3	SW-48 (0-5')	Soluble	Solid	300.0	30684
890-2642-4	SW-49 (0-5')	Soluble	Solid	300.0	30684
890-2642-5	SW-50 (0-5')	Soluble	Solid	300.0	30684
890-2642-6	SW-51 (0-5')	Soluble	Solid	300.0	30684
890-2642-7	SW-52 (0-5')	Soluble	Solid	300.0	30684
890-2642-8	SW-53 (0-5')	Soluble	Solid	300.0	30684
890-2642-9	SW-56 (0-5')	Soluble	Solid	300.0	30684
890-2642-10	SW-75 (0-1')	Soluble	Solid	300.0	30684
890-2642-11	SW-76 (0-1')	Soluble	Solid	300.0	30684
890-2642-12	SW-77 (0-1')	Soluble	Solid	300.0	30684
890-2642-13	SW-78 (0-1')	Soluble	Solid	300.0	30684
890-2642-14	SW-79 (0-1')	Soluble	Solid	300.0	30684
890-2642-15	SW-80 (0-4')	Soluble	Solid	300.0	30684
890-2642-16	SW-81 (0-4')	Soluble	Solid	300.0	30684
890-2642-17	SW-82 (0-4')	Soluble	Solid	300.0	30684
890-2642-18	SW-83 (0-4')	Soluble	Solid	300.0	30684
890-2642-19	SW-84 (0-4')	Soluble	Solid	300.0	30684
890-2642-20	SW-85 (0-4')	Soluble	Solid	300.0	30684
MB 880-30684/1-A	Method Blank	Soluble	Solid	300.0	30684
LCS 880-30684/2-A	Lab Control Sample	Soluble	Solid	300.0	30684
LCSD 880-30684/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30684
890-2642-1 MS	SW-46 (0-5')	Soluble	Solid	300.0	30684
890-2642-1 MSD	SW-46 (0-5')	Soluble	Solid	300.0	30684
890-2642-11 MS	SW-76 (0-1')	Soluble	Solid	300.0	30684
890-2642-11 MSD	SW-76 (0-1')	Soluble	Solid	300.0	30684

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: SW-46 (0-5')

Lab Sample ID: 890-2642-1
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 11:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 10:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 09:22	CH	XEN MID

Client Sample ID: SW-47 (0-5')

Lab Sample ID: 890-2642-2
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 11:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 11:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 09:49	CH	XEN MID

Client Sample ID: SW-48 (0-5')

Lab Sample ID: 890-2642-3
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 12:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 11:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 09:59	CH	XEN MID

Client Sample ID: SW-49 (0-5')

Lab Sample ID: 890-2642-4
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 12:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: SW-49 (0-5')

Lab Sample ID: 890-2642-4
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 12:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 10:08	CH	XEN MID

Client Sample ID: SW-50 (0-5')

Lab Sample ID: 890-2642-5
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 12:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 13:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 10:17	CH	XEN MID

Client Sample ID: SW-51 (0-5')

Lab Sample ID: 890-2642-6
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 13:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 10:45	CH	XEN MID

Client Sample ID: SW-52 (0-5')

Lab Sample ID: 890-2642-7
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 13:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 13:52	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-52 (0-5') Lab Sample ID: 890-2642-7

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 10:54	CH	XEN MID

Client Sample ID: SW-53 (0-5') Lab Sample ID: 890-2642-8

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 13:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 14:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 11:03	CH	XEN MID

Client Sample ID: SW-56 (0-5') Lab Sample ID: 890-2642-9

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 14:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30684	07/26/22 11:22	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 11:13	CH	XEN MID

Client Sample ID: SW-75 (0-1') Lab Sample ID: 890-2642-10

Date Collected: 07/19/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 11:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 11:22	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: SW-76 (0-1')

Lab Sample ID: 890-2642-11
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 11:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 11:31	CH	XEN MID

Client Sample ID: SW-77 (0-1')

Lab Sample ID: 890-2642-12
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 12:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 11:59	CH	XEN MID

Client Sample ID: SW-78 (0-1')

Lab Sample ID: 890-2642-13
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 12:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 16:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 12:08	CH	XEN MID

Client Sample ID: SW-79 (0-1')

Lab Sample ID: 890-2642-14
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 13:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: SW-79 (0-1')

Lab Sample ID: 890-2642-14
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 12:35	CH	XEN MID

Client Sample ID: SW-80 (0-4')

Lab Sample ID: 890-2642-15
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 13:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 12:45	CH	XEN MID

Client Sample ID: SW-81 (0-4')

Lab Sample ID: 890-2642-16
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 13:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 17:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 12:54	CH	XEN MID

Client Sample ID: SW-82 (0-4')

Lab Sample ID: 890-2642-17
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 16:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 17:43	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-82 (0-4') Lab Sample ID: 890-2642-17

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 13:03	CH	XEN MID

Client Sample ID: SW-83 (0-4') Lab Sample ID: 890-2642-18

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31023	07/29/22 14:53	MR	XEN MID
Total/NA	Analysis	8021B		1			31193	08/02/22 13:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 13:12	CH	XEN MID

Client Sample ID: SW-84 (0-4') Lab Sample ID: 890-2642-19

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/01/22 23:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 13:21	CH	XEN MID

Client Sample ID: SW-85 (0-4') Lab Sample ID: 890-2642-20

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31023	07/29/22 14:53	MR	XEN MID
Total/NA	Analysis	8021B		1			31193	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30926	07/28/22 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 19:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30684	07/26/22 11:23	CH	XEN MID
Soluble	Analysis	300.0		1			30922	07/30/22 13:31	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: SW-86 (0-4')

Lab Sample ID: 890-2642-21
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 00:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 11:29	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 03:59	CH	XEN MID

Client Sample ID: SW-87 (0-4')

Lab Sample ID: 890-2642-22
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 00:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 12:33	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 04:26	CH	XEN MID

Client Sample ID: SW-88 (0-4')

Lab Sample ID: 890-2642-23
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 12:55	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 04:36	CH	XEN MID

Client Sample ID: SW-89 (0-4')

Lab Sample ID: 890-2642-24
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 01:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-89 (0-4') Lab Sample ID: 890-2642-24

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 13:17	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 04:45	CH	XEN MID

Client Sample ID: SW-90 (0-4') Lab Sample ID: 890-2642-25

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 01:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 13:39	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 04:54	CH	XEN MID

Client Sample ID: SW-91 (0-4') Lab Sample ID: 890-2642-26

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 02:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 14:00	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 05:22	CH	XEN MID

Client Sample ID: SW-92 (0-4') Lab Sample ID: 890-2642-27

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 03:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 14:22	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Client Sample ID: SW-92 (0-4') Lab Sample ID: 890-2642-27

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 05:31	CH	XEN MID

Client Sample ID: SW-93 (0-4') Lab Sample ID: 890-2642-28

Date Collected: 07/20/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 03:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 14:44	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 05:40	CH	XEN MID

Client Sample ID: BH-49 (5') Lab Sample ID: 890-2642-29

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 14:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 15:06	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 05:50	CH	XEN MID

Client Sample ID: BH-50 (5') Lab Sample ID: 890-2642-30

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 16:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 15:28	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 05:59	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-51 (5')

Lab Sample ID: 890-2642-31
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 16:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 16:11	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 06:08	CH	XEN MID

Client Sample ID: BH-52 (5')

Lab Sample ID: 890-2642-32
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 17:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 16:32	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 06:36	CH	XEN MID

Client Sample ID: BH-53 (5')

Lab Sample ID: 890-2642-33
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 17:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 16:54	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 06:45	CH	XEN MID

Client Sample ID: BH-54 (5')

Lab Sample ID: 890-2642-34
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 18:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-54 (5')
Lab Sample ID: 890-2642-34

Date Collected: 07/21/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 17:16	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 07:13	CH	XEN MID

Client Sample ID: BH-55 (5')
Lab Sample ID: 890-2642-35

Date Collected: 07/21/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 18:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 17:37	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 07:22	CH	XEN MID

Client Sample ID: BH-56 (5')
Lab Sample ID: 890-2642-36

Date Collected: 07/21/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31195	08/01/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 18:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 17:59	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 07:31	CH	XEN MID

Client Sample ID: BH-57 (5')
Lab Sample ID: 890-2642-37

Date Collected: 07/19/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 16:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 18:21	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-57 (5')

Lab Sample ID: 890-2642-37

Date Collected: 07/19/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 07:40	CH	XEN MID

Client Sample ID: BH-65 (1')

Lab Sample ID: 890-2642-38

Date Collected: 07/19/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 16:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 18:42	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 07:50	CH	XEN MID

Client Sample ID: BH-66 (1')

Lab Sample ID: 890-2642-39

Date Collected: 07/19/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 17:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 19:04	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 07:59	CH	XEN MID

Client Sample ID: BH-67 (1')

Lab Sample ID: 890-2642-40

Date Collected: 07/19/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 17:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30935	07/28/22 15:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 19:26	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30685	07/26/22 11:29	CH	XEN MID
Soluble	Analysis	300.0		1			30921	07/30/22 08:08	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-68 (1')

Lab Sample ID: 890-2642-41
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 17:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 21:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 14:54	CH	XEN MID

Client Sample ID: BH-69 (1')

Lab Sample ID: 890-2642-42
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 18:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 22:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 15:03	CH	XEN MID

Client Sample ID: BH-70 (1')

Lab Sample ID: 890-2642-43
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 18:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 22:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 15:12	CH	XEN MID

Client Sample ID: BH-71 (1')

Lab Sample ID: 890-2642-44
Matrix: Solid
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

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	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-71 (1')
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

Lab Sample ID: 890-2642-44
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			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 15:22	CH	XEN MID

Client Sample ID: BH-72 (1')
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

Lab Sample ID: 890-2642-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31025	07/29/22 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31149	08/01/22 19:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 23:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 15:31	CH	XEN MID

Client Sample ID: BH-73 (1')
Date Collected: 07/19/22 00:00
Date Received: 07/22/22 17:02

Lab Sample ID: 890-2642-46
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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 04:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 23:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 15:40	CH	XEN MID

Client Sample ID: BH-74 (4')
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

Lab Sample ID: 890-2642-47
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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 04:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/29/22 23:50	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-74 (4')

Lab Sample ID: 890-2642-47

Date Collected: 07/20/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 16:08	CH	XEN MID

Client Sample ID: BH-75 (4')

Lab Sample ID: 890-2642-48

Date Collected: 07/20/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 04:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/30/22 00:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 16:17	CH	XEN MID

Client Sample ID: BH-76 (4')

Lab Sample ID: 890-2642-49

Date Collected: 07/20/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 05:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/30/22 00:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 16:45	CH	XEN MID

Client Sample ID: BH-77 (4')

Lab Sample ID: 890-2642-50

Date Collected: 07/20/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/02/22 05:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/30/22 00:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 16:54	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-78 (4')

Lab Sample ID: 890-2642-51
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31030	07/29/22 15:39	MR	XEN MID
Total/NA	Analysis	8021B		1			31193	08/01/22 17:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/30/22 01:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 17:03	CH	XEN MID

Client Sample ID: BH-79 (4')

Lab Sample ID: 890-2642-52
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31030	07/29/22 15:39	MR	XEN MID
Total/NA	Analysis	8021B		1			31193	08/01/22 18:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/30/22 01:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 17:12	CH	XEN MID

Client Sample ID: BH-80 (4')

Lab Sample ID: 890-2642-53
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31030	07/29/22 15:39	MR	XEN MID
Total/NA	Analysis	8021B		1			31193	08/01/22 18:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/30/22 02:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 17:22	CH	XEN MID

Client Sample ID: BH-81 (4')

Lab Sample ID: 890-2642-54
Matrix: Solid
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 17:02

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	31030	07/29/22 15:39	MR	XEN MID
Total/NA	Analysis	8021B		1			31193	08/01/22 18:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Client Sample ID: BH-81 (4')

Lab Sample ID: 890-2642-54

Date Collected: 07/20/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/30/22 02:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 17:31	CH	XEN MID

Client Sample ID: HD-2 (0-1')

Lab Sample ID: 890-2642-55

Date Collected: 07/20/22 00:00
Matrix: Solid
Date Received: 07/22/22 17:02

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	31030	07/29/22 15:39	MR	XEN MID
Total/NA	Analysis	8021B		1			31193	08/01/22 19:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31224	08/01/22 16:26	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31064	07/30/22 10:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30936	07/28/22 15:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30956	07/30/22 03:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30681	07/26/22 11:08	CH	XEN MID
Soluble	Analysis	300.0		1			30825	07/28/22 17:40	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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. Job ID: 890-2642-1
Project/Site: Solaris - SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2642-1	SW-46 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-2	SW-47 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-3	SW-48 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-4	SW-49 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-5	SW-50 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-6	SW-51 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-7	SW-52 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-8	SW-53 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-9	SW-56 (0-5')	Solid	07/21/22 00:00	07/22/22 17:02	0 - 5
890-2642-10	SW-75 (0-1')	Solid	07/19/22 00:00	07/22/22 17:02	0 - 1
890-2642-11	SW-76 (0-1')	Solid	07/19/22 00:00	07/22/22 17:02	0 - 1
890-2642-12	SW-77 (0-1')	Solid	07/19/22 00:00	07/22/22 17:02	0 - 1
890-2642-13	SW-78 (0-1')	Solid	07/19/22 00:00	07/22/22 17:02	0 - 1
890-2642-14	SW-79 (0-1')	Solid	07/19/22 00:00	07/22/22 17:02	0 - 1
890-2642-15	SW-80 (0-4')	Solid	07/19/22 00:00	07/22/22 17:02	0 - 4
890-2642-16	SW-81 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-17	SW-82 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-18	SW-83 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-19	SW-84 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-20	SW-85 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-21	SW-86 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-22	SW-87 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-23	SW-88 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-24	SW-89 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-25	SW-90 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-26	SW-91 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-27	SW-92 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-28	SW-93 (0-4')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 4
890-2642-29	BH-49 (5')	Solid	07/21/22 00:00	07/22/22 17:02	5
890-2642-30	BH-50 (5')	Solid	07/21/22 00:00	07/22/22 17:02	5
890-2642-31	BH-51 (5')	Solid	07/21/22 00:00	07/22/22 17:02	5
890-2642-32	BH-52 (5')	Solid	07/21/22 00:00	07/22/22 17:02	5
890-2642-33	BH-53 (5')	Solid	07/21/22 00:00	07/22/22 17:02	5
890-2642-34	BH-54 (5')	Solid	07/21/22 00:00	07/22/22 17:02	5
890-2642-35	BH-55 (5')	Solid	07/21/22 00:00	07/22/22 17:02	5
890-2642-36	BH-56 (5')	Solid	07/21/22 00:00	07/22/22 17:02	5
890-2642-37	BH-57 (5')	Solid	07/19/22 00:00	07/22/22 17:02	5
890-2642-38	BH-65 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-39	BH-66 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-40	BH-67 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-41	BH-68 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-42	BH-69 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-43	BH-70 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-44	BH-71 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-45	BH-72 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-46	BH-73 (1')	Solid	07/19/22 00:00	07/22/22 17:02	1
890-2642-47	BH-74 (4')	Solid	07/20/22 00:00	07/22/22 17:02	4
890-2642-48	BH-75 (4')	Solid	07/20/22 00:00	07/22/22 17:02	4
890-2642-49	BH-76 (4')	Solid	07/20/22 00:00	07/22/22 17:02	4
890-2642-50	BH-77 (4')	Solid	07/20/22 00:00	07/22/22 17:02	4
890-2642-51	BH-78 (4')	Solid	07/20/22 00:00	07/22/22 17:02	4
890-2642-52	BH-79 (4')	Solid	07/20/22 00:00	07/22/22 17:02	4
890-2642-53	BH-80 (4')	Solid	07/20/22 00:00	07/22/22 17:02	4
890-2642-54	BH-81 (4')	Solid	07/20/22 00:00	07/22/22 17:02	4

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris -

Job ID: 890-2642-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2642-55	HD-2 (0-1')	Solid	07/20/22 00:00	07/22/22 17:02	0 - 1

Page 641 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

890-2642 Chain of Custody

8/4/2022

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name:	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Peyton Oliver
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-46 (0-5')	7/21/2022			X			X				X		X												X								
	SW-47 (0-5')	7/21/2022			X			X				X		X												X								
	SW-48 (0-5')	7/21/2022			X			X				X		X												X								
	SW-49 (0-5')	7/21/2022			X			X				X		X												X								
	SW-50 (0-5')	7/21/2022			X			X				X		X												X								
	SW-51 (0-5')	7/21/2022			X			X				X		X												X								
	SW-52 (0-5')	7/21/2022			X			X				X		X												X								
	SW-53 (0-5')	7/21/2022			X			X				X		X												X								
	SW-56 (0-5')	7/21/2022			X			X				X		X												X								
	SW-75 (0-1')	7/19/2022			X			X				X		X												X								

Relinquished by: Peyton Oliver	Date: 7/22/22	Time: 1702	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 7.22.22 Time: 1702

LAB USE ONLY

Sample Temperature
5.2
5.0

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 106 of 113

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 642 of 703

Analysis Request of Chain of Custody Record

8/4/2022

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Brittany Long
Project Name:	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	Sampler Signature: Peyton Oliver
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-76 (0-1')	7/19/2022			X				X					X		X													X							
	SW-77 (0-1')	7/19/2022			X				X					X		X													X							
	SW-78 (0-1')	7/19/2022			X				X					X		X													X							
	SW-79 (0-1')	7/19/2022			X				X					X		X													X							
	SW-80 (0-4')	7/19/2022			X				X					X		X													X							
	SW-81 (0-4')	7/20/2022			X				X					X		X													X							
	SW-82 (0-4')	7/20/2022			X				X					X		X													X							
	SW-83 (0-4')	7/20/2022			X				X					X		X													X							
	SW-84 (0-4')	7/20/2022			X				X					X		X													X							
	SW-85 (0-4')	7/20/2022			X				X					X		X													X							

Relinquished by:	Date: 7/22/22	Time: 1702	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 107 of 113

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 643 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Brittany Long
Project Name:	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	Sampler Signature: Peyton Oliver
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)
	SW-86 (0-4')	7/20/2022			X				X				
	SW-87 (0-4')	7/20/2022			X				X				
	SW-88 (0-4')	7/20/2022			X				X				
	SW-89 (0-4')	7/20/2022			X				X				
	SW-90 (0-4')	7/20/2022			X				X				
	SW-91 (0-4')	7/20/2022			X				X				
	SW-92 (0-4')	7/20/2022			X				X				
	SW-93 (0-4')	7/20/2022			X				X				
	BH-49 (5')	7/21/2022			X				X				
	BH-50 (5')	7/21/2022			X				X				

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
X		X													X							
X		X													X							
X		X													X							
X		X													X							
X		X													X							
X		X													X							
X		X													X							
X		X													X							
X		X													X							
X		X													X							

Relinquished by: Peyton Oliver	Date: 7/22/22	Time: 1702	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 644 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Brittany Long
Project Name:	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	Sampler Signature: Peyton Oliver
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-51 (5')	7/21/2022			X				X					X		X												X							
	BH-52 (5')	7/21/2022			X				X					X		X												X							
	BH-53 (5')	7/21/2022			X				X					X		X												X							
	BH-54 (5')	7/21/2022			X				X					X		X												X							
	BH-55 (5')	7/21/2022			X				X					X		X												X							
	BH-56 (5')	7/21/2022			X				X					X		X												X							
	BH-57 (4')	7/21/2022			X				X					X		X												X							
	BH-65 (1')	7/19/2022			X				X					X		X												X							
	BH-66 (1')	7/19/2022			X				X					X		X												X							
	BH-67 (1')	7/19/2022			X				X					X		X												X							

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	7/22/22	1702	[signature]		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

Pg 1

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Page 109 of 113

Released to Imaging: 10/17/2022 12:02:07 PM

8/4/2022

Page 645 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name:	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	**Sampler Signature:** Peyton Oliver
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-68 (1')	7/19/2022			X				X					X		X												X							
	BH-69 (1')	7/19/2022			X				X					X		X												X							
	BH-70 (1')	7/19/2022			X				X					X		X												X							
	BH-71 (1')	7/19/2022			X				X					X		X												X							
	BH-72 (1')	7/19/2022			X				X					X		X												X							
	BH-73 (1')	7/19/2022			X				X					X		X												X							
	BH-74 (4')	7/20/2022			X				X					X		X												X							
	BH-75 (4')	7/20/2022			X				X					X		X												X							
	BH-76 (4')	7/20/2022			X				X					X		X												X							
	BH-77 (4')	7/20/2022			X				X					X		X												X							

Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by: 7/22/22 1707	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM
Page 110 of 113
Released to Imaging: 10/17/2022 12:02:07 PM
8/4/2022

Page 646 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Brittany Long
Project Name:	Brittany.Long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Eurofins Xenco	Sampler Signature: Peyton Oliver
Comments:	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-78 (4')	7/20/2022			X				X					X		X												X							
	BH-79 (4')	7/20/2022			X				X					X		X												X							
	BH-80 (4')	7/20/2022			X				X					X		X												X							
	BH-81 (4')	7/20/2022			X				X					X		X												X							
	HD-2 (0-1')	7/20/2022			X				X					X		X												X							

Relinquished by: [signature]	Date: 7/22/22	Time: 1702	Received by: [signature] Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature [illegible]

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Page 111 of 113

Released to Imaging: 10/17/2022 12:02:07 PM

8/4/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2642-1
SDG Number: Eddy County NM

Login Number: 2642
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2642-1
SDG Number: Eddy County NM

Login Number: 2642
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/26/22 10:50 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2643-1
Laboratory Sample Delivery Group: Eddy County NM
Client Project/Site: Solaris Palmilla to St HU Line

For:
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Brittany Long

JKramer

Authorized for release by:
8/4/2022 10:53:08 AM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 17
QC Sample Results 19
QC Association Summary 25
Lab Chronicle 29
Certification Summary 34
Method Summary 35
Sample Summary 36
Chain of Custody 37
Receipt Checklists 39

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Job ID: 890-2643-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2643-1

Receipt
The samples were received on 7/25/2022 12:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 13.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-31196 and analytical batch 880-31322 was outside control limits. Sample matrix interference is suspected.

Method 8021B: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (880-17508-A-1-G MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30925 and analytical batch 880-30952 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-54 (0-5')

Lab Sample ID: 890-2643-1
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 16:25	08/02/22 22:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 16:25	08/02/22 22:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 16:25	08/02/22 22:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 16:25	08/02/22 22:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 16:25	08/02/22 22:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 16:25	08/02/22 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/01/22 16:25*	*08/02/22 22:28*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/01/22 16:25*	*08/02/22 22:28*	*1*

Method: 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			08/03/22 08:43	1

Method: 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			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		07/28/22 13:32	07/29/22 20:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/29/22 20:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/29/22 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/28/22 13:32*	*07/29/22 20:59*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/28/22 13:32*	*07/29/22 20:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		5.00		mg/Kg			07/29/22 01:40	1

Client Sample ID: SW-55 (0-5')

Lab Sample ID: 890-2643-2
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 16:25	08/02/22 22:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 16:25	08/02/22 22:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 16:25	08/02/22 22:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 16:25	08/02/22 22:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 16:25	08/02/22 22:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 16:25	08/02/22 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/01/22 16:25*	*08/02/22 22:54*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-55 (0-5')

Lab Sample ID: 890-2643-2
Matrix: Solid
Date Collected: 07/21/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/01/22 16:25*	*08/02/22 22:54*	*1*

Method: 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			08/03/22 08:43	1

Method: 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			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/29/22 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/29/22 22:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/29/22 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/22 13:32*	*07/29/22 22:04*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/28/22 13:32*	*07/29/22 22:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.8**		5.00		mg/Kg			07/29/22 01:49	1

Client Sample ID: SW-94 (0-5')

Lab Sample ID: 890-2643-3
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/03/22 23:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/03/22 23:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/03/22 23:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/02/22 13:54	08/03/22 23:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/03/22 23:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/02/22 13:54	08/03/22 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*08/02/22 13:54*	*08/03/22 23:00*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*08/02/22 13:54*	*08/03/22 23:00*	*1*

Method: 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			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 19:24	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-94 (0-5')

Lab Sample ID: 890-2643-3
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 22:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/28/22 13:32*	*07/29/22 22:26*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/28/22 13:32*	*07/29/22 22:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		4.95		mg/Kg			07/29/22 01:58	1

Client Sample ID: SW-95 (0-5')

Lab Sample ID: 890-2643-4
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 23:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 23:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 23:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/02/22 13:54	08/03/22 23:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 23:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/02/22 13:54	08/03/22 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*08/02/22 13:54*	*08/03/22 23:21*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*08/02/22 13:54*	*08/03/22 23:21*	*1*

Method: 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			08/03/22 08:43	1

Method: 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			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/28/22 13:32	07/29/22 22:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/28/22 13:32	07/29/22 22:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/28/22 13:32	07/29/22 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/28/22 13:32*	*07/29/22 22:47*	*1*
o-Terphenyl	*95*		*70 - 130*	*07/28/22 13:32*	*07/29/22 22:47*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-95 (0-5') Lab Sample ID: 890-2643-4

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		4.99		mg/Kg			07/29/22 02:08	1

Client Sample ID: SW-96 (0-5') Lab Sample ID: 890-2643-5

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/02/22 13:54	08/03/22 23:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/02/22 13:54	08/03/22 23:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/02/22 13:54	08/03/22 23:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/02/22 13:54	08/03/22 23:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/02/22 13:54	08/03/22 23:42	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/02/22 13:54	08/03/22 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/02/22 13:54*	*08/03/22 23:42*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*08/02/22 13:54*	*08/03/22 23:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 23:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 23:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/28/22 13:32*	*07/29/22 23:09*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/28/22 13:32*	*07/29/22 23:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		4.96		mg/Kg			07/29/22 02:17	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-97 (0-5')

Lab Sample ID: 890-2643-6
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 00:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/02/22 13:54	08/04/22 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 00:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/02/22 13:54	08/04/22 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/02/22 13:54*	*08/04/22 00:03*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/02/22 13:54*	*08/04/22 00:03*	*1*

Method: 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			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2570**		49.8		mg/Kg			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/28/22 13:32	07/29/22 23:31	1
Diesel Range Organics (Over C10-C28)	**2240**		49.8		mg/Kg		07/28/22 13:32	07/29/22 23:31	1
Oil Range Organics (Over C28-C36)	**325**		49.8		mg/Kg		07/28/22 13:32	07/29/22 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/28/22 13:32*	*07/29/22 23:31*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/28/22 13:32*	*07/29/22 23:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**251**		5.00		mg/Kg			07/29/22 02:26	1

Client Sample ID: SW-98 (0-5')

Lab Sample ID: 890-2643-7
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 00:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 00:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 00:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/02/22 13:54	08/04/22 00:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 00:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/02/22 13:54	08/04/22 00:23	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-98 (0-5')

Lab Sample ID: 890-2643-7
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/02/22 13:54*	*08/04/22 00:23*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/02/22 13:54*	*08/04/22 00:23*	*1*

Method: 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			08/03/22 08:43	1

Method: 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			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/29/22 23:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/29/22 23:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/29/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/28/22 13:32*	*07/29/22 23:52*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/28/22 13:32*	*07/29/22 23:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**202**		4.98		mg/Kg			07/29/22 02:54	1

Client Sample ID: SW-99 (0-5')

Lab Sample ID: 890-2643-8
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 00:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 00:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 00:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/02/22 13:54	08/04/22 00:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 00:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/02/22 13:54	08/04/22 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/02/22 13:54*	*08/04/22 00:44*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/02/22 13:54*	*08/04/22 00:44*	*1*

Method: 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			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1080**		49.9		mg/Kg			07/30/22 19:24	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-99 (0-5')

Lab Sample ID: 890-2643-8
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/30/22 00:14	1
Diesel Range Organics (Over C10-C28)	**950**		49.9		mg/Kg		07/28/22 13:32	07/30/22 00:14	1
Oil Range Organics (Over C28-C36)	**125**		49.9		mg/Kg		07/28/22 13:32	07/30/22 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/28/22 13:32*	*07/30/22 00:14*	*1*
o-Terphenyl	*88*		*70 - 130*	*07/28/22 13:32*	*07/30/22 00:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**193**		4.96		mg/Kg			07/29/22 03:03	1

Client Sample ID: BH-82 (5')

Lab Sample ID: 890-2643-9
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/04/22 01:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/04/22 01:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/04/22 01:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/02/22 13:54	08/04/22 01:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/04/22 01:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/02/22 13:54	08/04/22 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/02/22 13:54*	*08/04/22 01:04*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/02/22 13:54*	*08/04/22 01:04*	*1*

Method: 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			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 00:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 00:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/28/22 13:32*	*07/30/22 00:36*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/28/22 13:32*	*07/30/22 00:36*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: BH-82 (5')
Lab Sample ID: 890-2643-9
Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		4.95		mg/Kg			07/29/22 03:31	1

Client Sample ID: BH-83 (5')
Lab Sample ID: 890-2643-10
Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 01:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 01:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 01:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/02/22 13:54	08/04/22 01:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 01:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/02/22 13:54	08/04/22 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/02/22 13:54*	*08/04/22 01:25*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/02/22 13:54*	*08/04/22 01:25*	*1*

Method: 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			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 00:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 00:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/28/22 13:32*	*07/30/22 00:57*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/28/22 13:32*	*07/30/22 00:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		5.00		mg/Kg			07/29/22 03:40	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: BH-84 (5')
Lab Sample ID: 890-2643-11
Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/02/22 13:54	08/04/22 01:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/02/22 13:54	08/04/22 01:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/02/22 13:54	08/04/22 01:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/02/22 13:54	08/04/22 01:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/02/22 13:54	08/04/22 01:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/02/22 13:54	08/04/22 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/02/22 13:54*	*08/04/22 01:46*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*08/02/22 13:54*	*08/04/22 01:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 01:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 01:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/28/22 13:32*	*07/30/22 01:41*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/28/22 13:32*	*07/30/22 01:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		24.9		mg/Kg			07/29/22 03:49	5

Client Sample ID: BH-85 (5')
Lab Sample ID: 890-2643-12
Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 02:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 02:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 02:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/02/22 13:54	08/04/22 02:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 02:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/02/22 13:54	08/04/22 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/02/22 13:54*	*08/04/22 02:06*	*1*

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: BH-85 (5')
Lab Sample ID: 890-2643-12
Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/02/22 13:54*	*08/04/22 02:06*	*1*

Method: 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			08/03/22 08:43	1

Method: 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			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/30/22 02:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/30/22 02:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/30/22 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/28/22 13:32*	*07/30/22 02:02*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/28/22 13:32*	*07/30/22 02:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**647**		24.8		mg/Kg			07/29/22 03:58	5

Client Sample ID: BH-86 (5')
Lab Sample ID: 890-2643-13
Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 03:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 03:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 03:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/02/22 13:54	08/04/22 03:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/02/22 13:54	08/04/22 03:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/02/22 13:54	08/04/22 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/02/22 13:54*	*08/04/22 03:29*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/02/22 13:54*	*08/04/22 03:29*	*1*

Method: 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			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/30/22 19:24	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2643-1
SDG: Eddy County NM

Client Sample ID: BH-86 (5')

Lab Sample ID: 890-2643-13
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 02:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 02:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/30/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/28/22 13:32*	*07/30/22 02:24*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/28/22 13:32*	*07/30/22 02:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**464**		5.01		mg/Kg			07/29/22 04:07	1

Client Sample ID: SW-100 (0-5')

Lab Sample ID: 890-2643-14
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/04/22 03:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/04/22 03:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/04/22 03:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/02/22 13:54	08/04/22 03:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/02/22 13:54	08/04/22 03:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/02/22 13:54	08/04/22 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/02/22 13:54*	*08/04/22 03:50*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/02/22 13:54*	*08/04/22 03:50*	*1*

Method: 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			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**745**		49.9		mg/Kg			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/30/22 02:45	1
Diesel Range Organics (Over C10-C28)	**663**		49.9		mg/Kg		07/28/22 13:32	07/30/22 02:45	1
Oil Range Organics (Over C28-C36)	**82.4**		49.9		mg/Kg		07/28/22 13:32	07/30/22 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/28/22 13:32*	*07/30/22 02:45*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/28/22 13:32*	*07/30/22 02:45*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2643-1
SDG: Eddy County NM

Client Sample ID: SW-100 (0-5')

Lab Sample ID: 890-2643-14
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**258**		4.99		mg/Kg			07/29/22 04:17	1

Client Sample ID: SW-101 (0-5')

Lab Sample ID: 890-2643-15
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46
Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 04:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 04:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 04:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/02/22 13:54	08/04/22 04:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/04/22 04:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/02/22 13:54	08/04/22 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/02/22 13:54*	*08/04/22 04:10*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/02/22 13:54*	*08/04/22 04:10*	*1*

Method: 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			08/03/22 08:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**984**		49.9		mg/Kg			07/30/22 19:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/28/22 13:32	07/30/22 03:07	1
Diesel Range Organics (Over C10-C28)	**870**		49.9		mg/Kg		07/28/22 13:32	07/30/22 03:07	1
Oil Range Organics (Over C28-C36)	**114**		49.9		mg/Kg		07/28/22 13:32	07/30/22 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/28/22 13:32*	*07/30/22 03:07*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/28/22 13:32*	*07/30/22 03:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**249**		4.97		mg/Kg			07/29/22 04:26	1

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy 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)										
880-17508-A-1-F MS	Matrix Spike	103	113										
880-17508-A-1-G MSD	Matrix Spike Duplicate	301 S1+	143 S1+										
890-2643-1	SW-54 (0-5')	102	104										
890-2643-2	SW-55 (0-5')	98	111										
890-2643-3	SW-94 (0-5')	90	118										
890-2643-3 MS	SW-94 (0-5')	82	114										
890-2643-3 MSD	SW-94 (0-5')	85	121										
890-2643-4	SW-95 (0-5')	86	121										
890-2643-5	SW-96 (0-5')	93	124										
890-2643-6	SW-97 (0-5')	104	112										
890-2643-7	SW-98 (0-5')	92	117										
890-2643-8	SW-99 (0-5')	98	111										
890-2643-9	BH-82 (5')	89	113										
890-2643-10	BH-83 (5')	93	115										
890-2643-11	BH-84 (5')	88	114										
890-2643-12	BH-85 (5')	92	115										
890-2643-13	BH-86 (5')	88	112										
890-2643-14	SW-100 (0-5')	93	109										
890-2643-15	SW-101 (0-5')	91	111										
LCS 880-31190/1-A	Lab Control Sample	80	118										
LCS 880-31196/1-A	Lab Control Sample	93	103										
LCSD 880-31190/2-A	Lab Control Sample Dup	82	115										
LCSD 880-31196/2-A	Lab Control Sample Dup	99	106										
MB 880-31190/5-A	Method Blank	83	106										
MB 880-31195/5-A	Method Blank	82	106										
MB 880-31196/5-A	Method Blank	76	94										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-2643-1	SW-54 (0-5')	82	91										
890-2643-1 MS	SW-54 (0-5')	75	75										
890-2643-1 MSD	SW-54 (0-5')	77	76										
890-2643-2	SW-55 (0-5')	104	118										
890-2643-3	SW-94 (0-5')	103	119										
890-2643-4	SW-95 (0-5')	83	95										
890-2643-5	SW-96 (0-5')	81	92										
890-2643-6	SW-97 (0-5')	90	87										
890-2643-7	SW-98 (0-5')	81	89										
890-2643-8	SW-99 (0-5')	86	88										
890-2643-9	BH-82 (5')	91	102										
890-2643-10	BH-83 (5')	103	113										
890-2643-11	BH-84 (5')	88	101										

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy 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)								
890-2643-12	BH-85 (5')	96	102								
890-2643-13	BH-86 (5')	98	109								
890-2643-14	SW-100 (0-5')	84	90								
890-2643-15	SW-101 (0-5')	82	85								
LCS 880-30925/2-A	Lab Control Sample	104	106								
LCSD 880-30925/3-A	Lab Control Sample Dup	102	104								
MB 880-30925/1-A	Method Blank	100	117								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31190/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:54	08/03/22 22:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/22 13:54	08/03/22 22:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*08/02/22 13:54*	*08/03/22 22:39*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/02/22 13:54*	*08/03/22 22:39*	*1*

Lab Sample ID: LCS 880-31190/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1198		mg/Kg		120	70 - 130		
Toluene			0.100	0.09669		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09060		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1747		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.08684		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-31190/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1251		mg/Kg		125	70 - 130	4	35
Toluene			0.100	0.09932		mg/Kg		99	70 - 130	3	35
Ethylbenzene			0.100	0.09308		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1781		mg/Kg		89	70 - 130	2	35
o-Xylene			0.100	0.08893		mg/Kg		89	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 890-2643-3 MS **Client Sample ID: SW-94 (0-5')**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.0996	0.1023		mg/Kg		102	70 - 130		
Toluene	<0.00201	U	0.0996	0.08446		mg/Kg		85	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2643-3 MS **Client Sample ID: SW-94 (0-5')**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0996	0.07873		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1496		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U	0.0996	0.07424		mg/Kg		75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 890-2643-3 MSD **Client Sample ID: SW-94 (0-5')**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.1006		mg/Kg		101	70 - 130	2	35
Toluene	<0.00201	U	0.0994	0.08184		mg/Kg		82	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0994	0.07496		mg/Kg		75	70 - 130	5	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1428		mg/Kg		72	70 - 130	5	35
o-Xylene	<0.00201	U	0.0994	0.07202		mg/Kg		72	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*

Lab Sample ID: MB 880-31195/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31376 **Prep Batch: 31195**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 13:58	08/03/22 11:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/22 13:58	08/03/22 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*08/01/22 13:58*	*08/03/22 11:03*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/01/22 13:58*	*08/03/22 11:03*	*1*

Lab Sample ID: MB 880-31196/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31322 **Prep Batch: 31196**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 14:48	08/02/22 21:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 14:48	08/02/22 21:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 14:48	08/02/22 21:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/22 14:48	08/02/22 21:09	1

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-31196/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31322 **Prep Batch: 31196**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 14:48	08/02/22 21:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/22 14:48	08/02/22 21:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*08/01/22 14:48*	*08/02/22 21:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/01/22 14:48*	*08/02/22 21:09*	*1*

Lab Sample ID: LCS 880-31196/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31322 **Prep Batch: 31196**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09555		mg/Kg		96	70 - 130
Toluene	0.100	0.08990		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08912		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1816		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09590		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-31196/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31322 **Prep Batch: 31196**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1086		mg/Kg		109	70 - 130	13	35
Toluene	0.100	0.09048		mg/Kg		90	70 - 130	1	35
Ethylbenzene	0.100	0.08371		mg/Kg		84	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1686		mg/Kg		84	70 - 130	7	35
o-Xylene	0.100	0.08869		mg/Kg		89	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-17508-A-1-F MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31322 **Prep Batch: 31196**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.1044		mg/Kg		104	70 - 130
Toluene	<0.00201	U F1 F2	0.101	0.08709		mg/Kg		85	70 - 130
Ethylbenzene	<0.00201	U F1 F2	0.101	0.07668		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.201	0.1550		mg/Kg		77	70 - 130
o-Xylene	<0.00201	U	0.101	0.08207		mg/Kg		82	70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17508-A-1-F MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31322 **Prep Batch: 31196**

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-17508-A-1-G MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 31322 **Prep Batch: 31196**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.07995		mg/Kg		80	70 - 130	27	35
Toluene	<0.00201	U F1 F2	0.0998	0.02974	F1 F2	mg/Kg		29	70 - 130	98	35
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.01597	F1 F2	mg/Kg		16	70 - 130	131	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.01703	F1 F2	mg/Kg		9	70 - 130	160	35
o-Xylene	<0.00201	U	0.0998	0.09141		mg/Kg		92	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	301	S1+	70 - 130
1,4-Difluorobenzene (Surr)	143	S1+	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-30925/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30952 **Prep Batch: 30925**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 19:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/28/22 13:32	07/29/22 19:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	07/28/22 13:32	07/29/22 19:53	1
o-Terphenyl	117		70 - 130	07/28/22 13:32	07/29/22 19:53	1

Lab Sample ID: LCS 880-30925/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30952 **Prep Batch: 30925**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	858.8		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1129		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	106		70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-30925/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30952 **Prep Batch: 30925**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	891.2		mg/Kg		89	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1188		mg/Kg		119	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: 890-2643-1 MS **Client Sample ID: SW-54 (0-5')**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30952 **Prep Batch: 30925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	692.0	F1	mg/Kg		66	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	736.5		mg/Kg		72	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*75*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 890-2643-1 MSD **Client Sample ID: SW-54 (0-5')**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 30952 **Prep Batch: 30925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	712.8	F1	mg/Kg		68	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	759.0		mg/Kg		74	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30683/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 30916

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/28/22 23:49	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2643-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-30683/2-A
Matrix: Solid
Analysis Batch: 30916

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.6		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-30683/3-A
Matrix: Solid
Analysis Batch: 30916

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	259.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-17307-A-1-B MS
Matrix: Solid
Analysis Batch: 30916

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	874		1260	2169		mg/Kg		103	90 - 110		

Lab Sample ID: 880-17307-A-1-C MSD
Matrix: Solid
Analysis Batch: 30916

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	874		1260	2167		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-2643-6 MS
Matrix: Solid
Analysis Batch: 30916

Client Sample ID: SW-97 (0-5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	251		250	489.9		mg/Kg		96	90 - 110		

Lab Sample ID: 890-2643-6 MSD
Matrix: Solid
Analysis Batch: 30916

Client Sample ID: SW-97 (0-5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	251		250	490.4		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

GC VOA

Prep Batch: 31190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-3	SW-94 (0-5')	Total/NA	Solid	5035	
890-2643-4	SW-95 (0-5')	Total/NA	Solid	5035	
890-2643-5	SW-96 (0-5')	Total/NA	Solid	5035	
890-2643-6	SW-97 (0-5')	Total/NA	Solid	5035	
890-2643-7	SW-98 (0-5')	Total/NA	Solid	5035	
890-2643-8	SW-99 (0-5')	Total/NA	Solid	5035	
890-2643-9	BH-82 (5')	Total/NA	Solid	5035	
890-2643-10	BH-83 (5')	Total/NA	Solid	5035	
890-2643-11	BH-84 (5')	Total/NA	Solid	5035	
890-2643-12	BH-85 (5')	Total/NA	Solid	5035	
890-2643-13	BH-86 (5')	Total/NA	Solid	5035	
890-2643-14	SW-100 (0-5')	Total/NA	Solid	5035	
890-2643-15	SW-101 (0-5')	Total/NA	Solid	5035	
MB 880-31190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2643-3 MS	SW-94 (0-5')	Total/NA	Solid	5035	
890-2643-3 MSD	SW-94 (0-5')	Total/NA	Solid	5035	

Prep Batch: 31195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31195/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 31196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-1	SW-54 (0-5')	Total/NA	Solid	5035	
890-2643-2	SW-55 (0-5')	Total/NA	Solid	5035	
MB 880-31196/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31196/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31196/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17508-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-17508-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-1	SW-54 (0-5')	Total/NA	Solid	8021B	31196
890-2643-2	SW-55 (0-5')	Total/NA	Solid	8021B	31196
MB 880-31196/5-A	Method Blank	Total/NA	Solid	8021B	31196
LCS 880-31196/1-A	Lab Control Sample	Total/NA	Solid	8021B	31196
LCSD 880-31196/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31196
880-17508-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	31196
880-17508-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31196

Analysis Batch: 31376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-3	SW-94 (0-5')	Total/NA	Solid	8021B	31190
890-2643-4	SW-95 (0-5')	Total/NA	Solid	8021B	31190
890-2643-5	SW-96 (0-5')	Total/NA	Solid	8021B	31190
890-2643-6	SW-97 (0-5')	Total/NA	Solid	8021B	31190
890-2643-7	SW-98 (0-5')	Total/NA	Solid	8021B	31190
890-2643-8	SW-99 (0-5')	Total/NA	Solid	8021B	31190

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 31376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-9	BH-82 (5')	Total/NA	Solid	8021B	31190
890-2643-10	BH-83 (5')	Total/NA	Solid	8021B	31190
890-2643-11	BH-84 (5')	Total/NA	Solid	8021B	31190
890-2643-12	BH-85 (5')	Total/NA	Solid	8021B	31190
890-2643-13	BH-86 (5')	Total/NA	Solid	8021B	31190
890-2643-14	SW-100 (0-5')	Total/NA	Solid	8021B	31190
890-2643-15	SW-101 (0-5')	Total/NA	Solid	8021B	31190
MB 880-31190/5-A	Method Blank	Total/NA	Solid	8021B	31190
MB 880-31195/5-A	Method Blank	Total/NA	Solid	8021B	31195
LCS 880-31190/1-A	Lab Control Sample	Total/NA	Solid	8021B	31190
LCSD 880-31190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31190
890-2643-3 MS	SW-94 (0-5')	Total/NA	Solid	8021B	31190
890-2643-3 MSD	SW-94 (0-5')	Total/NA	Solid	8021B	31190

Analysis Batch: 31378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-1	SW-54 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-2	SW-55 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-3	SW-94 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-4	SW-95 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-5	SW-96 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-6	SW-97 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-7	SW-98 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-8	SW-99 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-9	BH-82 (5')	Total/NA	Solid	Total BTEX	
890-2643-10	BH-83 (5')	Total/NA	Solid	Total BTEX	
890-2643-11	BH-84 (5')	Total/NA	Solid	Total BTEX	
890-2643-12	BH-85 (5')	Total/NA	Solid	Total BTEX	
890-2643-13	BH-86 (5')	Total/NA	Solid	Total BTEX	
890-2643-14	SW-100 (0-5')	Total/NA	Solid	Total BTEX	
890-2643-15	SW-101 (0-5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 30925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-1	SW-54 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-2	SW-55 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-3	SW-94 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-4	SW-95 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-5	SW-96 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-6	SW-97 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-7	SW-98 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-8	SW-99 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-9	BH-82 (5')	Total/NA	Solid	8015NM Prep	
890-2643-10	BH-83 (5')	Total/NA	Solid	8015NM Prep	
890-2643-11	BH-84 (5')	Total/NA	Solid	8015NM Prep	
890-2643-12	BH-85 (5')	Total/NA	Solid	8015NM Prep	
890-2643-13	BH-86 (5')	Total/NA	Solid	8015NM Prep	
890-2643-14	SW-100 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-15	SW-101 (0-5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 30925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-30925/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30925/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30925/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2643-1 MS	SW-54 (0-5')	Total/NA	Solid	8015NM Prep	
890-2643-1 MSD	SW-54 (0-5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-1	SW-54 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-2	SW-55 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-3	SW-94 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-4	SW-95 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-5	SW-96 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-6	SW-97 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-7	SW-98 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-8	SW-99 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-9	BH-82 (5')	Total/NA	Solid	8015B NM	30925
890-2643-10	BH-83 (5')	Total/NA	Solid	8015B NM	30925
890-2643-11	BH-84 (5')	Total/NA	Solid	8015B NM	30925
890-2643-12	BH-85 (5')	Total/NA	Solid	8015B NM	30925
890-2643-13	BH-86 (5')	Total/NA	Solid	8015B NM	30925
890-2643-14	SW-100 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-15	SW-101 (0-5')	Total/NA	Solid	8015B NM	30925
MB 880-30925/1-A	Method Blank	Total/NA	Solid	8015B NM	30925
LCS 880-30925/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30925
LCSD 880-30925/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30925
890-2643-1 MS	SW-54 (0-5')	Total/NA	Solid	8015B NM	30925
890-2643-1 MSD	SW-54 (0-5')	Total/NA	Solid	8015B NM	30925

Analysis Batch: 31080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-1	SW-54 (0-5')	Total/NA	Solid	8015 NM	
890-2643-2	SW-55 (0-5')	Total/NA	Solid	8015 NM	
890-2643-3	SW-94 (0-5')	Total/NA	Solid	8015 NM	
890-2643-4	SW-95 (0-5')	Total/NA	Solid	8015 NM	
890-2643-5	SW-96 (0-5')	Total/NA	Solid	8015 NM	
890-2643-6	SW-97 (0-5')	Total/NA	Solid	8015 NM	
890-2643-7	SW-98 (0-5')	Total/NA	Solid	8015 NM	
890-2643-8	SW-99 (0-5')	Total/NA	Solid	8015 NM	
890-2643-9	BH-82 (5')	Total/NA	Solid	8015 NM	
890-2643-10	BH-83 (5')	Total/NA	Solid	8015 NM	
890-2643-11	BH-84 (5')	Total/NA	Solid	8015 NM	
890-2643-12	BH-85 (5')	Total/NA	Solid	8015 NM	
890-2643-13	BH-86 (5')	Total/NA	Solid	8015 NM	
890-2643-14	SW-100 (0-5')	Total/NA	Solid	8015 NM	
890-2643-15	SW-101 (0-5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2643-1
SDG: Eddy County NM

HPLC/IC

Leach Batch: 30683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-1	SW-54 (0-5')	Soluble	Solid	DI Leach	
890-2643-2	SW-55 (0-5')	Soluble	Solid	DI Leach	
890-2643-3	SW-94 (0-5')	Soluble	Solid	DI Leach	
890-2643-4	SW-95 (0-5')	Soluble	Solid	DI Leach	
890-2643-5	SW-96 (0-5')	Soluble	Solid	DI Leach	
890-2643-6	SW-97 (0-5')	Soluble	Solid	DI Leach	
890-2643-7	SW-98 (0-5')	Soluble	Solid	DI Leach	
890-2643-8	SW-99 (0-5')	Soluble	Solid	DI Leach	
890-2643-9	BH-82 (5')	Soluble	Solid	DI Leach	
890-2643-10	BH-83 (5')	Soluble	Solid	DI Leach	
890-2643-11	BH-84 (5')	Soluble	Solid	DI Leach	
890-2643-12	BH-85 (5')	Soluble	Solid	DI Leach	
890-2643-13	BH-86 (5')	Soluble	Solid	DI Leach	
890-2643-14	SW-100 (0-5')	Soluble	Solid	DI Leach	
890-2643-15	SW-101 (0-5')	Soluble	Solid	DI Leach	
MB 880-30683/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30683/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30683/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17307-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17307-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2643-6 MS	SW-97 (0-5')	Soluble	Solid	DI Leach	
890-2643-6 MSD	SW-97 (0-5')	Soluble	Solid	DI Leach	

Analysis Batch: 30916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2643-1	SW-54 (0-5')	Soluble	Solid	300.0	30683
890-2643-2	SW-55 (0-5')	Soluble	Solid	300.0	30683
890-2643-3	SW-94 (0-5')	Soluble	Solid	300.0	30683
890-2643-4	SW-95 (0-5')	Soluble	Solid	300.0	30683
890-2643-5	SW-96 (0-5')	Soluble	Solid	300.0	30683
890-2643-6	SW-97 (0-5')	Soluble	Solid	300.0	30683
890-2643-7	SW-98 (0-5')	Soluble	Solid	300.0	30683
890-2643-8	SW-99 (0-5')	Soluble	Solid	300.0	30683
890-2643-9	BH-82 (5')	Soluble	Solid	300.0	30683
890-2643-10	BH-83 (5')	Soluble	Solid	300.0	30683
890-2643-11	BH-84 (5')	Soluble	Solid	300.0	30683
890-2643-12	BH-85 (5')	Soluble	Solid	300.0	30683
890-2643-13	BH-86 (5')	Soluble	Solid	300.0	30683
890-2643-14	SW-100 (0-5')	Soluble	Solid	300.0	30683
890-2643-15	SW-101 (0-5')	Soluble	Solid	300.0	30683
MB 880-30683/1-A	Method Blank	Soluble	Solid	300.0	30683
LCS 880-30683/2-A	Lab Control Sample	Soluble	Solid	300.0	30683
LCSD 880-30683/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30683
880-17307-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	30683
880-17307-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	30683
890-2643-6 MS	SW-97 (0-5')	Soluble	Solid	300.0	30683
890-2643-6 MSD	SW-97 (0-5')	Soluble	Solid	300.0	30683

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-54 (0-5') Lab Sample ID: 890-2643-1

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31196	08/01/22 16:25	MR	XEN MID
Total/NA	Analysis	8021B		1			31322	08/02/22 22:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/29/22 20:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 01:40	CH	XEN MID

Client Sample ID: SW-55 (0-5') Lab Sample ID: 890-2643-2

Date Collected: 07/21/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31196	08/01/22 16:25	MR	XEN MID
Total/NA	Analysis	8021B		1			31322	08/02/22 22:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/29/22 22:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 01:49	CH	XEN MID

Client Sample ID: SW-94 (0-5') Lab Sample ID: 890-2643-3

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 23:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/29/22 22:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 01:58	CH	XEN MID

Client Sample ID: SW-95 (0-5') Lab Sample ID: 890-2643-4

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 23:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-95 (0-5') Lab Sample ID: 890-2643-4

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/29/22 22:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 02:08	CH	XEN MID

Client Sample ID: SW-96 (0-5') Lab Sample ID: 890-2643-5

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/03/22 23:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/29/22 23:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 02:17	CH	XEN MID

Client Sample ID: SW-97 (0-5') Lab Sample ID: 890-2643-6

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 00:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/29/22 23:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 02:26	CH	XEN MID

Client Sample ID: SW-98 (0-5') Lab Sample ID: 890-2643-7

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 00:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/29/22 23:52	AJ	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Client Sample ID: SW-98 (0-5') Lab Sample ID: 890-2643-7

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 02:54	CH	XEN MID

Client Sample ID: SW-99 (0-5') Lab Sample ID: 890-2643-8

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 00:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/30/22 00:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 03:03	CH	XEN MID

Client Sample ID: BH-82 (5') Lab Sample ID: 890-2643-9

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 01:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/30/22 00:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 03:31	CH	XEN MID

Client Sample ID: BH-83 (5') Lab Sample ID: 890-2643-10

Date Collected: 07/22/22 00:00 **Matrix: Solid**
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 01:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/30/22 00:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 03:40	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2643-1
SDG: Eddy County NM

Client Sample ID: BH-84 (5')

Lab Sample ID: 890-2643-11
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 01:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/30/22 01:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		5			30916	07/29/22 03:49	CH	XEN MID

Client Sample ID: BH-85 (5')

Lab Sample ID: 890-2643-12
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 02:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/30/22 02:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		5			30916	07/29/22 03:58	CH	XEN MID

Client Sample ID: BH-86 (5')

Lab Sample ID: 890-2643-13
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 03:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/30/22 02:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 04:07	CH	XEN MID

Client Sample ID: SW-100 (0-5')

Lab Sample ID: 890-2643-14
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 03:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2643-1
SDG: Eddy County NM

Client Sample ID: SW-100 (0-5')

Lab Sample ID: 890-2643-14
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46

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			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/30/22 02:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 04:17	CH	XEN MID

Client Sample ID: SW-101 (0-5')

Lab Sample ID: 890-2643-15
Matrix: Solid
Date Collected: 07/22/22 00:00
Date Received: 07/25/22 12:46

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	31190	08/02/22 13:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31376	08/04/22 04:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31378	08/03/22 08:43	MR	XEN MID
Total/NA	Analysis	8015 NM		1			31080	07/30/22 19:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30925	07/28/22 13:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30952	07/30/22 03:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30683	07/26/22 11:19	CH	XEN MID
Soluble	Analysis	300.0		1			30916	07/29/22 04:26	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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. Job ID: 890-2643-1
Project/Site: Solaris Palmilla to St HU Line SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Solaris Palmilla to St HU Line

Job ID: 890-2643-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2643-1	SW-54 (0-5')	Solid	07/21/22 00:00	07/25/22 12:46	0 - 5
890-2643-2	SW-55 (0-5')	Solid	07/21/22 00:00	07/25/22 12:46	0 - 5
890-2643-3	SW-94 (0-5')	Solid	07/22/22 00:00	07/25/22 12:46	0 - 5
890-2643-4	SW-95 (0-5')	Solid	07/22/22 00:00	07/25/22 12:46	0 - 5
890-2643-5	SW-96 (0-5')	Solid	07/22/22 00:00	07/25/22 12:46	0 - 5
890-2643-6	SW-97 (0-5')	Solid	07/22/22 00:00	07/25/22 12:46	0 - 5
890-2643-7	SW-98 (0-5')	Solid	07/22/22 00:00	07/25/22 12:46	0 - 5
890-2643-8	SW-99 (0-5')	Solid	07/22/22 00:00	07/25/22 12:46	0 - 5
890-2643-9	BH-82 (5')	Solid	07/22/22 00:00	07/25/22 12:46	5
890-2643-10	BH-83 (5')	Solid	07/22/22 00:00	07/25/22 12:46	5
890-2643-11	BH-84 (5')	Solid	07/22/22 00:00	07/25/22 12:46	5
890-2643-12	BH-85 (5')	Solid	07/22/22 00:00	07/25/22 12:46	5
890-2643-13	BH-86 (5')	Solid	07/22/22 00:00	07/25/22 12:46	5
890-2643-14	SW-100 (0-5')	Solid	07/22/22 00:00	07/25/22 12:46	0 - 5
890-2643-15	SW-101 (0-5')	Solid	07/22/22 00:00	07/25/22 12:46	0 - 5

Page 685 of 703

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

890-2643 Chain of Custody

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Palmilla to St HU Line		Brittany.Long@tetratech.com
Project Location: (county, state)	Eddy County, NM	Project #:	212C-MD-02473
Invoice to:	Tetra Tech, Inc.		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Peyton Oliver
Comments:			

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride / Sulfate / TDS	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-54 (0-5')	7/21/2022			X				X					X		X												X									
	SW-55 (0-5')	7/21/2022			X				X					X		X												X									
	SW-94 (0-5')	7/22/2022			X				X					X		X												X									
	SW-95 (0-5')	7/22/2022			X				X					X		X												X									
	SW-96 (0-5')	7/22/2022			X				X					X		X												X									
	SW-97 (0-5')	7/22/2022			X				X					X		X												X									
	SW-98 (0-5')	7/22/2022			X				X					X		X												X									
	SW-99 (0-5')	7/22/2022			X				X					X		X												X									
	BH-82 (5')	7/22/2022			X				X					X		X												X									
	BH-83 (5')	7/22/2022			X				X					X		X												X									

Relinquished by:	Date: 7/25/22	Time: 1245	Received by: Date: 7.25.22 Time: 1246
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
13.2
13.0
T-NM-007
-0.2

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Page 686 of 703

Analysis Request of Chain of Custody Record

Page 2 of 2

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Palmilla to St HU Line		Brittany.Long@tetratech.com
Project Location: (county, state)	Eddy County, NM	Project #:	212C-MD-02473
Invoice to:	Tetra Tech, Inc.		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Peyton Oliver
Comments:			

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-84 (5')	7/22/2022			X				X				X		X											X				
	BH-85 (5')	7/22/2022			X				X				X		X											X				
	BH-86 (5')	7/22/2022			X				X				X		X											X				
	SW-100 (0-5')	7/22/2022			X				X				X		X											X				
	SW-101 (0-5')	7/22/2022			X				X				X		X											X				

Relinquished by: Kenton Lee	Date: 7/25/22	Time: 1245	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: [signature] Date: 7.25.22 Time: 1246

LAB USE ONLY

Sample Temperature [signature]

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2643-1
SDG Number: Eddy County NM

Login Number: 2643
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2643-1
SDG Number: Eddy County NM

Login Number: 2643
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/26/22 10:50 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 08, 2022

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: PALMILLA TO St HU LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/05/22 14:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	PALMILLA TO St HU LINE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02473	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS		

Sample ID: SW - 97 (0-5') (H223516-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2022	ND	2.04	102	2.00	1.25	
Toluene*	<0.050	0.050	08/06/2022	ND	2.11	106	2.00	0.767	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.15	107	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	1.23	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	08/08/2022	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2022	ND	224	112	200	0.930	
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane *78.7 %* *43-149*

Surrogate: 1-Chlorooctadecane *91.8 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	PALMILLA TO St HU LINE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02473	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS		

Sample ID: SW - 99 (0-5') (H223516-02)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2022	ND	2.04	102	2.00	1.25	
Toluene*	<0.050	0.050	08/06/2022	ND	2.11	106	2.00	0.767	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.15	107	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	1.23	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	08/08/2022	ND	400	100	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2022	ND	224	112	200	0.930	
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane *87.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *100 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	PALMILLA TO St HU LINE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02473	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS		

Sample ID: SW - 100 (0-5') (H223516-03)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2022	ND	2.04	102	2.00	1.25	
Toluene*	<0.050	0.050	08/06/2022	ND	2.11	106	2.00	0.767	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.15	107	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	1.23	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	08/08/2022	ND	400	100	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2022	ND	224	112	200	0.930	
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane *84.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *96.3 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	PALMILLA TO St HU LINE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02473	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS		

Sample ID: SW - 101 (0-5') (H223516-04)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2022	ND	2.04	102	2.00	1.25	
Toluene*	<0.050	0.050	08/06/2022	ND	2.11	106	2.00	0.767	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.15	107	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	1.23	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	08/08/2022	ND	400	100	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2022	ND	224	112	200	0.930	
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane *85.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *98.4 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	PALMILLA TO St HU LINE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02473	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS		

Sample ID: SW - 102 (0-5') (H223516-05)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2022	ND	2.04	102	2.00	1.25	
Toluene*	<0.050	0.050	08/06/2022	ND	2.11	106	2.00	0.767	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.15	107	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	1.23	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	08/08/2022	ND	400	100	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2022	ND	224	112	200	0.930	
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane *83.9 %* *43-149*

Surrogate: 1-Chlorooctadecane *96.7 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 696 of 703

Analysis Request of Chain of Custody Record

Page 1 of

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Brittany Long
Project Name:	Brittany.Long@tetratech.com
Project Location: (county, state) Palmilla to St HU Line	Project #: 212C-MD-02473
Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Cardinal Labs	Sampler Signature: Peyton Oliver
Comments:	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
H223516																																		
1	SW-97 (0-5')	8/5/2022			X				X			X		X												X								
2	SW-99 (0-5')	8/5/2022			X				X			X		X												X								
3	SW-100 (0-5')	8/5/2022			X				X			X		X												X								
4	SW-101 (0-5')	8/5/2022			X				X			X		X												X								
5	SW-102 (0-5')	8/5/2022			X				X			X		X												X								

Relinquished by: Peyton Oliver	Date: 8/5/22	Time: 1423	Received by: Tamara Dillahoy
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Tamara Dillahoy — Date: 8-5-22 — Time: 1423

LAB USE ONLY

Sample Temperature
29.6°C
C-0.6°C
29.0°C
T.O. #113

REMARKS:

- [ ] STANDARD
- [X] RUSH: Same Day (24 hr) 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 10/6/2022 6:47:08 AM

Released to Imaging: 10/17/2022 12:02:07 PM

TETRA TECH

Appendix D

State Correspondence

From: Rob Kirk
To: Long, Brittany; Gonzales, Clair
Subject: FW: [EXTERNAL] RE: nAPP2108248771 - Palmilla TO State HU Line - Remediation Plan Status
Date: Monday, March 14, 2022 1:39:14 PM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

FYI

Rob Kirk
Solaris Water
Vice President & General Manager, HSE & Compliance
C: (469) 978-5620

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Monday, March 14, 2022 11:32 AM
To: Rob Kirk <rob.kirk@ariswater.com>
Cc: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: RE: [EXTERNAL] RE: nAPP2108248771 - Palmilla TO State HU Line - Remediation Plan Status

Thanks Rob, I have approved the Remediation Plan in the system. Please let me know if you have any questions.

Thanks
Jennifer Nobui

From: Rob Kirk <rob.kirk@ariswater.com>
Sent: Friday, March 11, 2022 3:24 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: Re: [EXTERNAL] RE: nAPP2108248771 - Palmilla TO State HU Line - Remediation Plan Status

Jennifer,
I have uploaded a revised signed C141 per your email.

Get Outlook for iOS

Disclaimer

The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorized to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

This email has been scanned for viruses and malware, and may have been automatically archived by Mimecast, a leader in email security and cyber resilience. Mimecast integrates email defenses with brand protection, security awareness training, web security, compliance and other essential capabilities. Mimecast helps protect large and small organizations from malicious activity, human error and technology failure; and to lead the movement toward building a more resilient world. To find out more, visit our website.

From: Rob Kirk
To: Long, Brittany; Gonzales, Clair
Subject: FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 89253
Date: Monday, March 14, 2022 1:40:11 PM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, March 14, 2022 11:32 AM
To: Rob Kirk <rob.kirk@ariswater.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 89253

To whom it may concern (c/o Rob Kirk for SOLARIS WATER MIDSTREAM, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2108248771, with the following conditions:

- **Remediation Plan Approved with Conditions. Bottom and sidewall samples off pad excavate to 600 mg/kg chloride from 0-4 ft bgs. Please collect bottom and sidewall confirmation samples every 500 square feet. Please dispose excavated soils at an approved OCD facility. Backfill per 19.15.29 NMAC.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-476-3441
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Disclaimer

The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorized to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

This email has been scanned for viruses and malware, and may have been automatically archived by Mimecast, a leader in email security and cyber resilience. Mimecast integrates email defenses with brand

protection, security awareness training, web security, compliance and other essential capabilities. Mimecast helps protect large and small organizations from malicious activity, human error and technology failure; and to lead the movement toward building a more resilient world. To find out more, visit our website.

Long, Brittany

From: Long, Brittany
Sent: Wednesday, June 1, 2022 10:47 AM
To: OCD.Enviro@state.nm.us
Cc: Rob Kirk; Gonzales, Clair; MorenoFlores, Ezequiel
Subject: Confirmation Sampling Notification Solaris Water Midstream Palmilla to State HU Line (nAPP2108248771)

Good Morning,

Tetra Tech is scheduled to collect 5 point confirmation, bottom hole and sidewall samples, for the Solaris Water Midstream Palmilla to State HU Line (nAPP2108248771) remediation starting on Friday, June 3, 2022, at 9:50 AM. These samples will be placed within the north portion of the remediaton and will continue each day as the remediation progresses. Please let me know if you have any questions or need any additional information.

Best Regards,

Brittany D. Long,

Brittany D. Long | **Biologist & Project Manager**
Phone: 432.682.4559 | Mobile 432.741.5813 | Fax:432.682.3946
Brittany.Long@tetratech.com

Tetra Tech | *Leading with Science®*
901 West Wall Street, Suite 100 Midland, Texas 79701

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

Please consider the environment before printing. Read more

TETRA TECH

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 149212

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 149212
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/17/2022