

Report Type: Closure Report 1RP-5483/NDHR1913360865

General Site Information:

Site:	Diamond 31 Fed Com #2H				
Company:	EOG Resources				
Section, Township and Range	Unit D	Sec 31	T 24S	R 34E	
County:	Lea County				
GPS:	32.181103			-103.516523	
Surface Owner:	Federal				
Directions:	From the intersection of HWY 128 and Vaca Ln, travel south on Vaca Ln for approx. 2.25 miles, turn east onto lease road for 0.15 miles to location on north side of lease road.				

Release Data:

Date Released:	3/21/2019
Type Release:	Oil & Produced Water
Source of Contamination:	Failed Gasket
Fluid Released:	37 bbl oil & 24 bbl water
Fluids Recovered:	36 bbl oil & 24 bbl water

Official Communication:

Name:	Todd Wells		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr		901 W. Wall St.
			Ste 100
City:	Midland Texas, 79706		Midland, Texas
Phone number:	(432) 258-4346		(432) 682-4559
Fax:			
Email:	Todd_Wells@eogresources.com		Clair.Gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	17.56' Below Ground Surface
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Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg

June 9, 2022

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

**RE: Closure Report
EOG Resources
Diamond 31 Fed Com #2H
Lea County, New Mexico
1RP-5483
NDHR1913360865**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release that occurred at the Diamond 31 Fed Com #2H, Unit D, Section 31, Township 24 South, Range 34 East, Lea County, New Mexico (Site). The spill site coordinates are 32.181103°, -103.516523°. 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 Diamond 31 Fed Com #2H was caused by a failed gasket on the heater treater, causing a mist of oil and water to spray on the pad within the equipment and off location onto the adjacent pasture. Approximately 37 bbls of crude oil and 24 bbls of produced water were released. Approximately 36 bbls of crude oil and 24 bbls of produced water were recovered. On March, 12, 2019, 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 1 mile radius of the Site. The well reported on the USGS National Water Information System reports water level measured at 17.56 ft bgs and is approximately 0.65 miles of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 60 ft bgs and measured water level of 30 ft bgs and is approximately 0.94 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
0.65 Miles	5/29/1991	USGS	N/A	17.56'
0.94 Miles	1/1/1912	NMOSE	60'	30'

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 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL beyond the top 4.0' of soil, for chlorides is 600 mg/kg.

Tetra Tech 2019 Site Assessment and Remediation Activities2019 Assessment Activities

Tetra Tech conducted site assessment activities in May 17, 2019, a total of five (5) auger holes (AH-1 through AH-5) were installed to total depths ranging from 1.0 ft bgs to 2.0 ft bgs to attempt to assess the impacted the area. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Xenco Laboratory 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**.

Based on laboratory data from the May 17, 2019 sampling event, auger holes (AH-1 through AH-5) indicated TPH concentrations above RRALs, with concentrations ranging from 111 mg/kg to 30,100 mg/kg, at depths ranging from surface to 2.0 ft bgs. Auger holes (AH-1 through AH-3) indicated BTEX concentrations above RRALs, with concentrations ranging from 58.7 mg/kg to 442 mg/kg, at depths ranging from surface to 1.5 ft bgs. Auger hole (AH-1) indicated a chloride concentration above RRALs, with a concentration of 702 mg/kg, at surface depth. However, none of the auger holes (AH-1 through AH-5) were vertically delineated for TPH, and the auger holes (AH-2 and AH-3) were not vertically delineated for BTEX.

2019 Remediation Activities

Tetra Tech conducted remediation activities from June 27, 2019 to July 9, 2019. The areas of impact within the pasture area (AH-4 and AH-5), were remediated to a depth of 2.0 ft bgs. The area of impact on the western portion of the pad (AH-3), was remediated to a depth of 5.0 ft bgs. The area of impact within the equipment (AH-1 and AH-2) was remediated to depths of 1.0 ft bgs and 4.0 ft bgs. The remediation areas and depths are shown on **Figure 4**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the area remediation. 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. A total of fifty-three (53) bottom holes (BH-1 through BH-53) were collected and a total of fourteen (14) sidewalls (NSW-1 through NSW-3, SSW-1 through SSW-3, ESW-1 through ESW-4, and WSW-1 through WSW-4) were collected to confirm full removal of impacted soil. The confirmation soil samples were submitted to the Xenco Laboratory 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 2** and the analytical laboratory reports are included in **Appendix C**.

Regarding all final samples collected from the remediation of the pasture area and the western portion of the pad, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs. However, regarding the area of remediation of the impact within the equipment, the bottom holes (BH-50 through BH-53) indicated TPH concentrations above the RRALs, with concentrations ranging from 2,550 mg/kg to 5,200 mg/kg, at depths of 1.0 ft bgs. Due to safety concerns, equipment, and access issues, the bottom holes (BH-50 through BH-54) were not remediated further in 2019.

Approximately 1,200 cubic yards of impacted soil was removed and properly disposed of during the 2019 remediation activities, and the area was backfilled with clean to surface grade material.

Tetra Tech 2021-2022 Site Assessment and Remediation Activities

2021 Assessment Activities

Tetra Tech conducted site assessment activities on November 24, 2021, a total of four (4) auger holes (AH-1 through AH-4) and seven (7) horizontals (H-1 through H-7) were installed to total depths of 4.5 ft bgs and 1.0 ft bgs, respectively, to attempt to assess the impacted area of bottom holes (BH-50 through BH-54) and provide current data. The impact and sample locations are shown on **Figure 5**.

The samples were submitted to Xenco Laboratory 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 3** and the analytical laboratory reports are included in **Appendix C**.

Based on laboratory data from the November 24, 2021 sampling event, auger holes (AH-1 through AH-4) indicated benzene and BTEX concentrations below laboratory detection limits. Auger holes (AH-1 through AH-3) indicated TPH concentrations above RRALs, with concentrations ranging from 159 mg/kg to 1,670 mg/kg, at depths ranging from surface to 4.5 ft bgs. Auger holes (AH-1, AH-2, and AH-4) indicated chloride concentrations above RRALs, with concentrations ranging from 746 mg/kg to 1,510 mg/kg, at depths ranging from surface to 4.5 ft bgs. Additionally, all horizontals (H-1 through H-7) indicated TPH, benzene, BTEX, and chloride concentrations below RRALs. However, auger holes (AH-2 and AH-4) were not vertically delineated for chlorides, and the auger holes (AH-1 and AH-3) were not vertically delineated for TPH.

2022 Remediation Activities

Tetra Tech conducted remediation activities from April 11, 2022 to April 12, 2022. Based on the data from the 2019 confirmation samples (BH-50 through BH-54) and the current assessment data from 2021, EOG removed the lines and equipment to make the area safely accessible. Following the removal of lines and equipment, the areas of remaining impact, were remediated to a depth of 5.0 ft bgs. The remediation areas and depths are shown on **Figure 6**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the area remediation within the berm. 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. A total of six (6) bottom holes (BH-1 through BH-6) were collected and a total of eight (8) sidewalls (SW-1 through SW-8) were collected to confirm full removal of impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico 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 4** 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.

Approximately 170 cubic yards of impacted soil was removed and properly disposed of during the 2022 remediation activities, and the area was backfilled with clean to surface grade material.

Conclusions

Based on the C-141 (1RP-5483 / NDHR1913360865) and information provided by EOG, 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 activities, the RRALs of 600 mg/kg for chlorides, and 100 mg/kg for TPH were followed. Based on Tetra Tech assessment activities, laboratory results indicated TPH and chloride concentrations in auger holes (AH-1 through AH-4) from the 2021 assessment activities of previous bottom holes (BH-50 through BH-54) exceeded the RRALs and required further 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 1,370 total cubic yards of impacted soil was removed and properly disposed of from the 2019 and 2022 remediation activities, 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 this 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



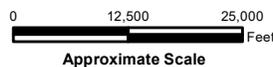
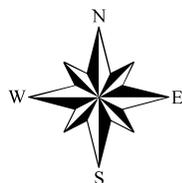
Clair Gonzales, P.G.
Senior Project Manager



Figures



 SITE LOCATION



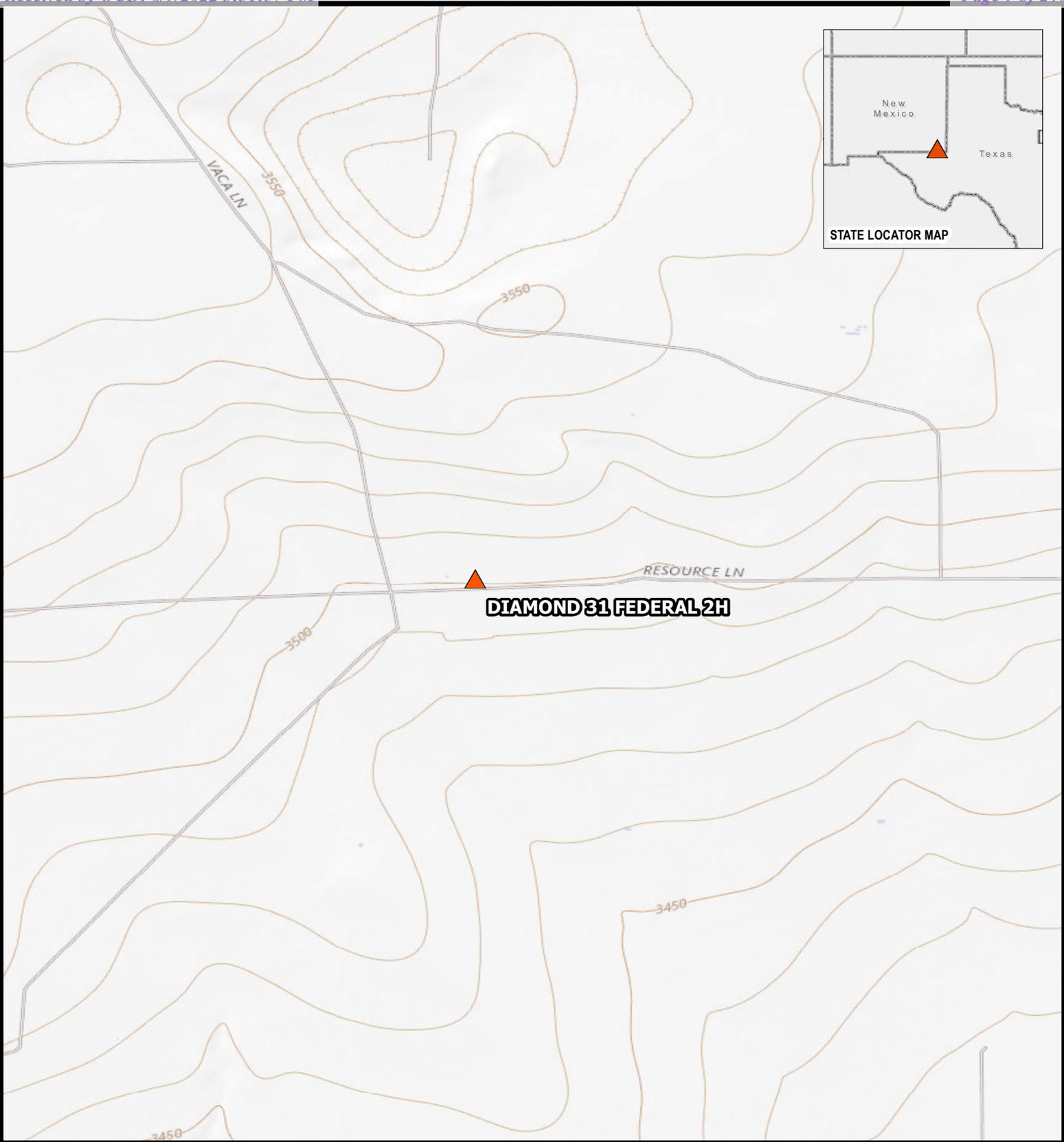
OVERVIEW MAP
 DIAMOND 31 FEDERAL 2H
 Property located at coordinates 32.181103°, -103.516523°
 LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02519

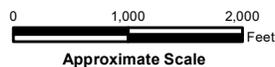
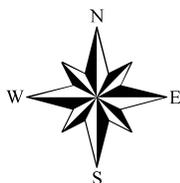
FIGURE
1

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DIAMOND 31 FEDERAL 2H

 SITE LOCATION



TOPOGRAPHIC MAP
 DIAMOND 31 FEDERAL 2H
 Property located at coordinates 32.181103°, -103.516523°
 LEA COUNTY, NEW MEXICO

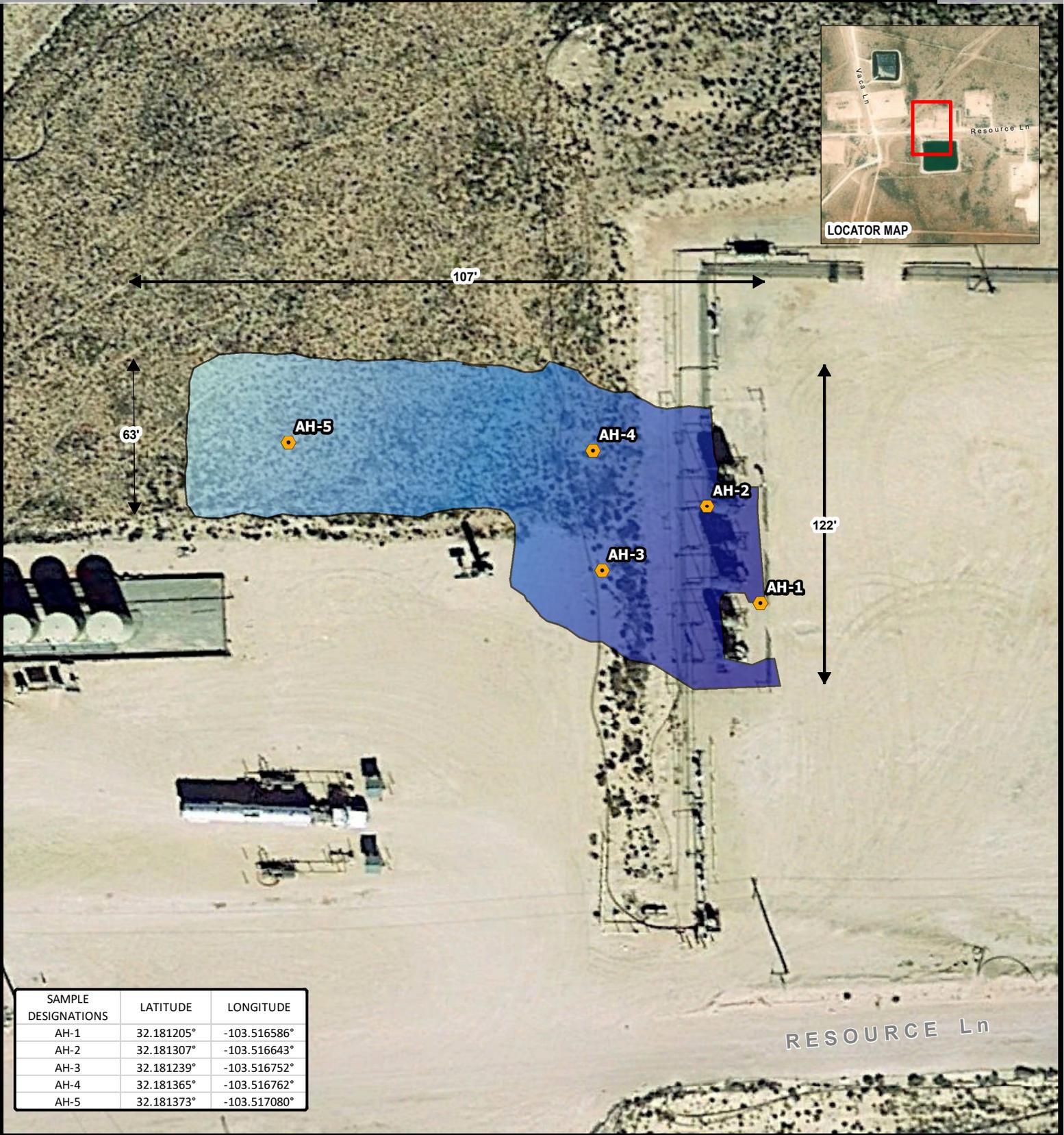


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FIGURE
2

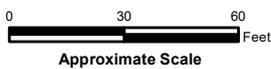
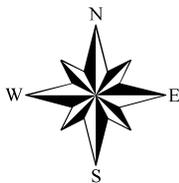
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SAMPLE DESIGNATIONS	LATITUDE	LONGITUDE
AH-1	32.181205°	-103.516586°
AH-2	32.181307°	-103.516643°
AH-3	32.181239°	-103.516752°
AH-4	32.181365°	-103.516762°
AH-5	32.181373°	-103.517080°

-  AUGERHOLE SAMPLE LOCATIONS
-  IMPACTED SOIL EXTENT



SPILL ASSESSMENT MAP
 DIAMOND 31 FEDERAL 2H
 Property located at coordinates 32.181103°, -103.516523°
 LEA COUNTY, NEW MEXICO



FIGURE
3

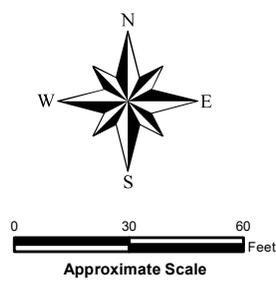
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- SIDEWALL SAMPLE LOCATIONS
- BOTTOMHOLE SAMPLE LOCATIONS
- 6"-1' EXCAVATED DEPTH AREA
- 2' EXCAVATED DEPTH AREA
- 4' EXCAVATED DEPTH AREA
- 5' EXCAVATED DEPTH AREA



EXCAVATION AREA & DEPTH MAP
 DIAMOND 31 FEDERAL 2H
 Property located at coordinates 32.181103°, -103.516523°
 LEA COUNTY, NEW MEXICO



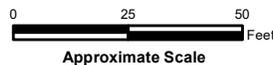
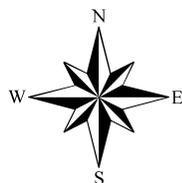
FIGURE
4

Service Layer Credits: ESRI, World Street Map, 2020.

SAMPLE DESIGNATION	LATITUDE	LONGITUDE
H-1	32.1814158°	-103.5166543°
H-2	32.1813324°	-103.5166258°
H-3	32.1812473°	-103.5165808°
H-4	32.181172387°	-103.516619366°
H-5	32.1811276°	-103.516639°
H-6	32.1811946°	-103.5166732°
H-7	32.1813138°	-103.5166779°
AH-1	32.1811615°	-103.5166386°
AH-2	32.1812192°	-103.5166468°
AH-3	32.1812792°	-103.5166493°
AH-4	32.1813561°	-103.5166482°



- HORIZONTAL SAMPLE LOCATIONS
- AUGERHOLE SAMPLE LOCATIONS
- IMPACTED SOIL EXTENT



Approximate Scale

SPILL ASSESSMENT MAP (2021)
 DIAMOND 31 FEDERAL 2H
 Property located at coordinates 32.181103°, -103.516523°
 LEA COUNTY, NEW MEXICO



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FIGURE
5

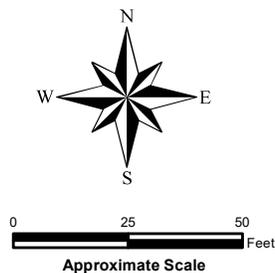
Service Layer Credits: ESRI, World Street Map, 2020.

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SAMPLE DESIGNATIONS	LATITUDE	LONGITUDE
SW-1	32.181411215°	-103.516652363°
SW-2	32.181357318°	-103.516636743°
SW-3	32.181355793°	-103.516663454°
SW-4	32.181274668°	-103.516635377°
SW-5	32.181273726°	-103.516661451°
SW-6	32.181191866°	-103.516630667°
SW-7	32.181189842°	-103.516658745°
SW-8	32.181127695°	-103.516643508°
BH-1	32.181385409°	-103.516651061°
BH-2	32.181346705°	-103.516650397°
BH-3	32.181298293°	-103.516648769°
BH-4	32.181253097°	-103.516648377°
BH-5	32.181201752°	-103.516645706°
BH-6	32.181162094°	-103.516643917°



- SIDEWALL SAMPLE LOCATIONS
- BH** BOTTOMHOLE SAMPLE LOCATIONS
- 5' EXCAVATED DEPTH AREA



EXCAVATION AREA & DEPTH MAP (2022)
 DIAMOND 31 FEDERAL 2H
 Property located at coordinates 32.181103°, -103.516523°
 LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02639

FIGURE
6

Service Layer Credits: ESRI, World Street Map, 2020.

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Tables

**Table 1
EOG
Diamond 31 Fed Com 2H
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								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
AH-1	5/17/2019	0-1	X		1,740	6,630	926	9,300	0.885	14.4	9.66	33.8	58.7	702
	"	1-1.5	X		295	1480	129	1,900	0.00353	0.122	0.144	0.629	0.899	213
	"	1.5-2	X		334	3,660	304	4,300	<0.00200	0.0214	0.0359	0.331	0.388	293
AH-2	5/17/2019	0-1	X		2,590	13,600	1,830	18,000	0.584	14.7	12.7	40.7	68.7	134
AH-3	5/17/2019	0-1	X		6,780	20,800	2,490	30,100	5.32	98.2	77.1	233	414	136
	"	1-1.5	X		6,520	10,300	1,130	18,000	7.71	134	71.9	228	442	7.36
AH-4	5/17/2019	0-1	X		<15.0	822	98.3	920	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	36.8
	"	1-1.5	X		<15.0	348	45.1	393	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<5.00
	"	1.5-2	X		<15.0	1,020	134	1,150	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5.18
AH-5	5/17/2019	0-1	X		<15.0	95.5	15.2	111	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<4.99
	"	1-1.5	X		<15.0	392	91.2	483	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<5.01

NOTES

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

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

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

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

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Remediated

Table 2
EOG
Diamond 31 Fed Com 2H
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														100 mg/kg	10 mg/kg	50 mg/kg	600 mg/kg
Bottom Hole 1	6/27/2019	2.0	X		<10.0	10.6	<10.0	10.6	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 2	6/27/2019	2.0	X		<10.0	14.2	<10.0	14.2	<0.050	0.055	<0.050	<0.150	<0.300	<16.0			
Bottom Hole 3	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 4	6/27/2019	2.0	X		<10.0	34.9	11.5	46.4	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 5	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 6	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0			
Bottom Hole 7	6/27/2019	2.0	X		<10.0	17.6	<10.0	17.6	<0.050	<0.050	<0.050	<0.150	<0.300	16.0			
Bottom Hole 8	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	0.054	<0.050	<0.150	0.054	48.0			
Bottom Hole 9	6/27/2019	2.0	X		<10.0	18.3	<10.0	18.3	<0.050	<0.050	<0.050	<0.150	<0.300	16.0			
Bottom Hole 10	6/27/2019	2.0	X		<10.0	54.1	18.7	72.8	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0			
Bottom Hole 11	6/27/2019	2.0	X		<10.0	12.8	<10.0	12.8	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 12	6/27/2019	2.0	X		<10.0	30.7	23.8	54.5	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0			
Bottom Hole 13	6/27/2019	2.0	X		<10.0	13.9	<10.0	13.9	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 14	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 15	6/27/2019	2.0	X		<10.0	19.9	<10.0	19.9	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 16	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	0.059	<0.050	<0.150	0.059	32.0			
Bottom Hole 17	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0			
Bottom Hole 18	6/27/2019	2.0	X		<10.0	30.4	<10.0	30.4	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 19	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 20	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0			
Bottom Hole 21	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 22	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0			

Table 2
EOG
Diamond 31 Fed Com 2H
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														100 mg/kg	10 mg/kg	50 mg/kg	600 mg/kg
Bottom Hole 23	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 24	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 25	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0			
Bottom Hole 26	6/27/2019	2.0	X		<10.0	18.2	<10.0	18.2	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 27	6/27/2019	2.0	X		<10.0	44.7	17.2	61.9	<0.050	<0.050	<0.050	<0.150	<0.300	16.0			
Bottom Hole 28	6/27/2019	2.0	X		<10.0	22.0	<10.0	22.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 29	6/27/2019	2.0	X		<10.0	10.7	<10.0	10.7	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 30	6/27/2019	2.0	X		<10.0	41.4	<10.0	41.4	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 31	6/27/2019	2.0	X		<10.0	14.2	<10.0	14.2	<0.050	<0.050	<0.050	<0.150	<0.300	16.0			
Bottom Hole 32	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 33	6/27/2019	2.0	X		<10.0	25.8	<10.0	25.8	<0.050	<0.050	<0.050	<0.150	<0.300	48.0			
Bottom Hole 34	6/27/2019	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0			
Bottom Hole 35	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176			
Bottom Hole 36	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256			
Bottom Hole 37	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176			
Bottom Hole 38	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240			
Bottom Hole 39	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160			
Bottom Hole 40	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144			
Bottom Hole 41	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272			
Bottom Hole 42	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176			
Bottom Hole 43	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144			
Bottom Hole 44	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240			
Bottom Hole 45	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176			

**Table 2
EOG
Diamond 31 Fed Com 2H
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														100 mg/kg	10 mg/kg	50 mg/kg	600 mg/kg
Bottom Hole 46	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0			
Bottom Hole 47	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160			
Bottom Hole 48	7/3/2019	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144			
Bottom Hole 49	7/3/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
Bottom Hole 50	7/9/2019	1.0	X		375	2060	116	2550	0.00455	0.08200	0.04670	0.301	0.434	213			
Bottom Hole 51	7/9/2019	1.0	X		292	4620	290	5200	0.00282	0.00854	0.0128	0.0351	0.0593	289			
Bottom Hole 52	7/9/2019	1.0	X		1510	3160	153	4820	1.10	4.21	1.99	7.93	15.2	40.9			
Bottom Hole 53	7/9/2019	1.0	X		763	2620	125	3510	0.108	0.637	0.466	9.8	11.0	573			
NSW-1	6/27/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
NSW-2	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112			
NSW-3	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144			
SSW-1	6/27/2019	-	X		<10.0	43.9	21.9	65.8	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
SSW-2	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0			
SSW-3	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144			
ESW-1	6/27/2019	-	X		<10.0	31.0	<10.0	31.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
ESW-2	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112			
ESW-3	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160			
ESW-4	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128			
WSW-1	6/27/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0			
WSW-2	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240			
WSW-3	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192			
WSW-4	7/3/2019	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112			

NOTES

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

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

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Remediated

Table 3
EOG
Diamond 31 Fed Com 2H
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														100 mg/kg	10 mg/kg	50 mg/kg	600 mg/kg
AH-1	11/24/2021	0-1	X		312	<49.9	<49.9	312	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	493			
	"	1-1.5	X		86.0	<50.0	<50.0	86.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	746			
	"	2-2.5	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	764			
	"	3-3.5	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	870			
	"	4-4.5	X		362	<49.8	<49.8	362	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	378			
AH-2	11/24/2021	0-1	X		495	<49.9	<49.9	495	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	140			
	"	1-1.5	X		93.6	<49.8	<49.8	93.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	171			
	"	2-2.5	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	299			
	"	3-3.5	X		52.0	<49.9	<49.9	52.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	898			
	"	4-4.5	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1480			
AH-3	11/24/2021	0-1	X		1670	<49.9	<49.9	1670	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	539			
	"	1-1.5	X		270	<50.0	<50.0	270	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	561			
	"	2-2.5	X		269	<49.9	<49.9	269	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	512			
	"	3-3.5	X		159	<50.0	<50.0	159	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	394			
	"	4-4.5	X		138	72.2	<49.8	210	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	410			
AH-4	11/24/2021	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	30.1			
	"	1-1.5	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	322			
	"	2-2.5	X		63.4	<50.0	<50.0	63.4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	167			
	"	3-3.5	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	966			
	"	4-4.5	X		<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1510			
H-1	11/24/2021	0-1	X		88.0	<49.9	<49.9	88.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<4.98			
H-2	11/24/2021	0-1	X		50.1	<50.0	<50.0	50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	5.47			
H-3	11/24/2021	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.01			
H-4	11/24/2021	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<4.97			
H-5	11/24/2021	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<5.00			
H-6	11/24/2021	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<5.00			
H-7	11/24/2021	0-1	X		<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<5.03			

NOTES

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BTEX = benzene, toluene, ethylbenzene, xylene

 Remediated

**Table 4
EOG
Diamond 31 Fed Com 2H
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									100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg
BH-1	4/12/2022	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
BH-2	4/12/2022	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-3	4/12/2022	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-4	4/12/2022	5	X	-	<10.0	34.4	<10.0	34.4	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-5	4/12/2022	5	X	-	<10.0	44.1	<10.0	44.1	<0.050	<0.050	<0.050	<0.150	<0.300	160
BH-6	4/12/2022	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-1	4/12/2022	0-5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-2	4/12/2022	0-5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
SW-3	4/12/2022	0-5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	4/12/2022	0-5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-5	4/12/2022	0-5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-6	4/12/2022	0-5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
SW-7	4/12/2022	0-5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-8	4/12/2022	0-5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

NOTES

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TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene



Photographic Documentation

EOG Resources
Diamond 31 Fed Com #2H
Lea County, New Mexico



TETRA
TECH



View Southeast – Excavation Area



View East – 2.0' Excavation Area

EOG Resources
Diamond 31 Fed Com #2H
Lea County, New Mexico



TETRA TECH



View South – 5.0' Excavation Area



View North – Hand Dug Excavation Area Inside Berm

EOG Resources
Diamond 31 Fed Com #2H
Lea County, New Mexico



TETRA TECH



View North – 4.0' Excavation Area

EOG Resources
Diamond 31 Fed Com #2H
Lea County, New Mexico



TETRA TECH



View Southeast – 2022 Excavation Area



View North – 2022 Excavation Area



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

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

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

Incident ID	NDHR1913360865
District RP	IRP-5483
Facility ID	
Application ID	pDHR1913360141

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) NDHR1913360865
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.181103° Longitude -103.516523°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Diamond 31 Fed Com #2H Facility	Site Type EOG Facility
Date Release Discovered 3/12/19	API# (if applicable) 30-025-40484

Unit Letter	Section	Township	Range	County
	31	24S	34E	Lea

Surface Owner: State Federal Tribal Private (Name: Bureau of Land Management, BLM)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 37	Volume Recovered (bbls) 36
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 24	Volume Recovered (bbls) 24
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The gasket on the heater treater failed causing a mist of oil and water to spray off location. Approximately 61 bbls of oil and water was released and 60 bbls recovered.

State of New Mexico
Oil Conservation Division

Incident ID	NDHR1913360865
District RP	1RP-5483
Facility ID	
Application ID	pDHR1913360141

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release volume more than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>5-1-19</u> email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: <u>Dylan Rose-Coss</u> Date: <u>05/13/2019</u>

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

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: *Todd Wells* _____ 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: Todd Wells 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: Jennifer Nobui Date: 06/13/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A



Appendix B

Site Characterization Documents



USGS
science for a changing world

USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: New Mexico GO

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 321127103310401

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321127103310401 24S.33E.24.44444

Lea County, New Mexico
 Latitude 32°11'27", Longitude 103°31'04" NAD27
 Land-surface elevation 3,538 feet above NAVD88
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1953-11-27			D 62610		3518.95	NGVD29	1	Z		
1953-11-27			D 62611		3520.60	NAVD88	1	Z		
1953-11-27			D 72019	17.40			1	Z		
1976-01-21			D 62610		3522.78	NGVD29	1	Z		
1976-01-21			D 62611		3524.43	NAVD88	1	Z		
1976-01-21			D 72019	13.57			1	Z		
1981-03-19			D 62610		3520.32	NGVD29	1	Z		
1981-03-19			D 62611		3521.97	NAVD88	1	Z		
1981-03-19			D 72019	16.03			1	Z		
1986-03-06			D 62610		3521.55	NGVD29	1	Z		
1986-03-06			D 62611		3523.20	NAVD88	1	Z		
1986-03-06			D 72019	14.80			1	Z		
1991-05-29			D 62610		3518.79	NGVD29	1	Z		
1991-05-29			D 62611		3520.44	NAVD88	1	Z		
1991-05-29			D 72019	17.56			1	Z		

Explanation

Section	Code	Description
---------	------	-------------

4/18/22, 9:41 AM

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
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](#)

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[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: 2022-04-18 10:37:34 EDT

0.35 0.32 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)				(NAD83 UTM in meters)				
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y	
C	02309	2	2	2	25	24S	33E	639708	3562997	

Driller License:		Driller Company:	
Driller Name:	UNKNOWN		
Drill Start Date:	01/01/1912	Drill Finish Date:	06/30/1912
Log File Date:		PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	7.00	Depth Well:	60 feet
		Plug Date:	
		Source:	
		Estimated Yield:	40 GPM
		Depth Water:	30 feet

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.

4/18/22 8:39 AM

POINT OF DIVERSION SUMMARY



National Water Information System: Mapper

Sites | Map

Search

Search by Street Address:

Search by Place Name:

Search by Site Number(s):

Search by State/Territory:

Search by Watershed Region:

Surface-Water Sites

Groundwater Sites

Springs

Atmospheric Sites

Other Sites



Site Information

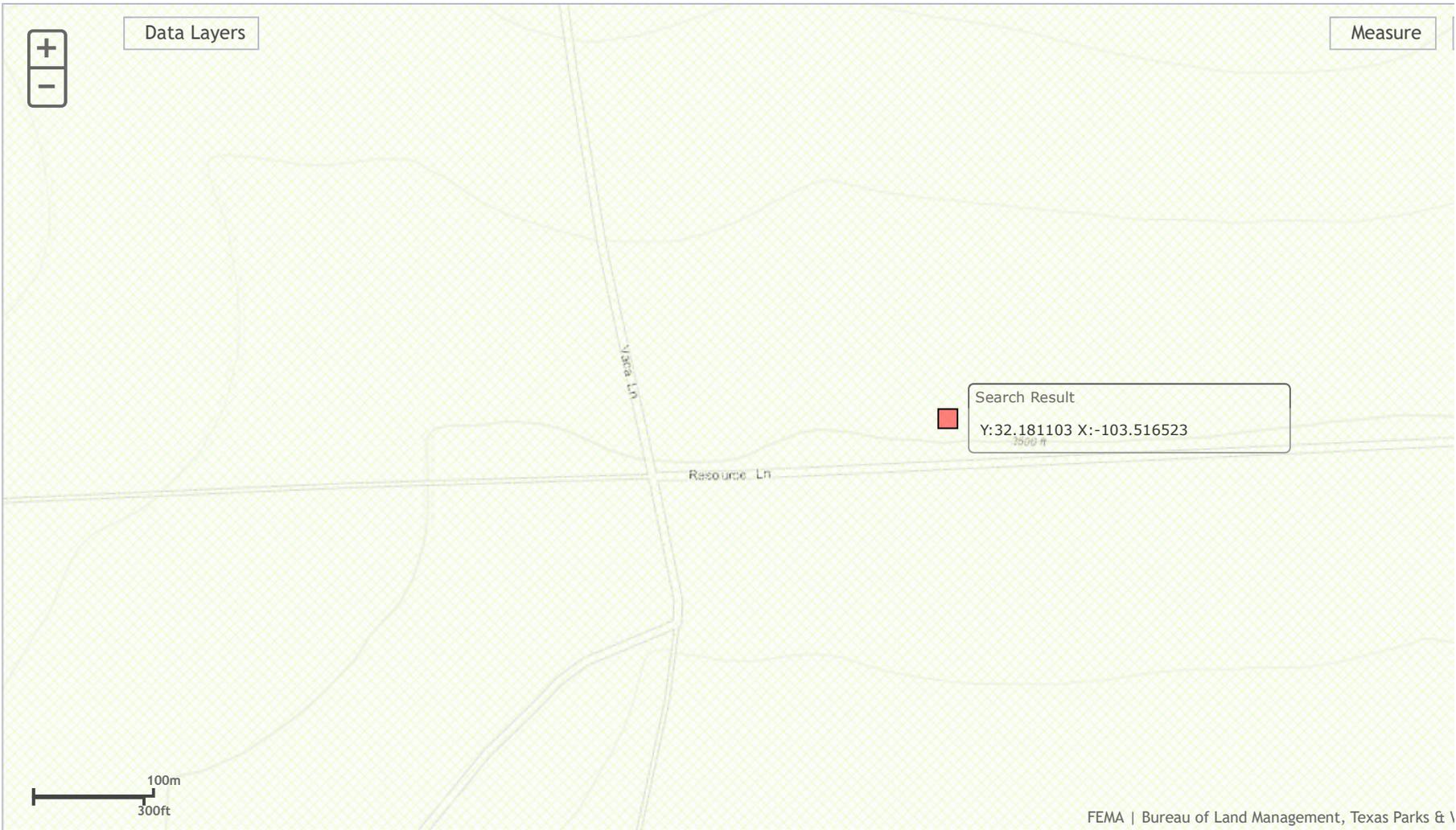


NFHL Web Mapping Application



Data Layers

Measure



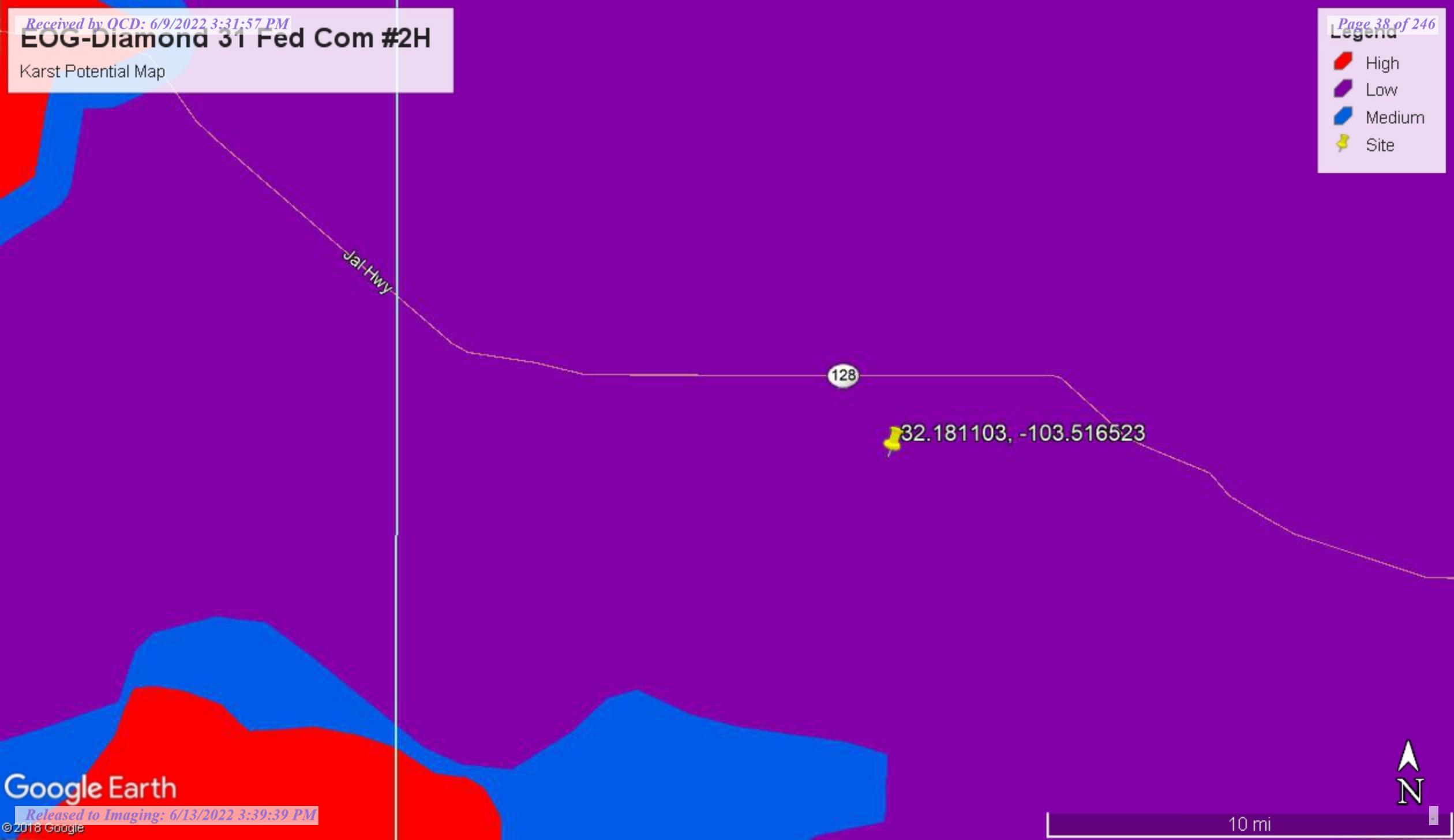
FEMA | Bureau of Land Management, Texas Parks & Wildlife

EOG-Diamond 31 Fed Com #2H

Karst Potential Map

Legend

- High
- Low
- Medium
- Site





Appendix C

Laboratory Reports

Analytical Report 624787

for
Tetra Tech- Midland

Project Manager: Mike Carmona

EOG Diamond 31 Fed Com 2H

212C-MD-01758

28-MAY-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)



28-MAY-19

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **624787**
EOG Diamond 31 Fed Com 2H
Project Address: Lea Co, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 624787. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 624787 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 624787

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH#1 (0-1')	S	05-17-19 00:00		624787-001
AH#1 (1-1.5')	S	05-17-19 00:00		624787-002
AH#1 (1.5-2')	S	05-17-19 00:00		624787-003
AH#2 (0-1')	S	05-17-19 00:00		624787-004
AH#3 (0-1')	S	05-17-19 00:00		624787-005
AH#4 (0-1')	S	05-17-19 00:00		624787-006
AH#4 (1-1.5')	S	05-17-19 00:00		624787-007
AH#4 (1.5-2')	S	05-17-19 00:00		624787-008
AH#5 (0-1')	S	05-17-19 00:00		624787-009
AH#5 (1-1.5')	S	05-17-19 00:00		624787-010
AH#3 (1-1.5')	S	05-17-19 00:00		624787-011



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: EOG Diamond 31 Fed Com 2H

Project ID: 212C-MD-01758
Work Order Number(s): 624787

Report Date: 28-MAY-19
Date Received: 05/20/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3089914 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 624787-002,624787-003,624787-011,624787-004,624787-005,624787-001.

Batch: LBA-3090325 TPH by SW8015 Mod

Lab Sample ID 624787-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Diesel Range Organics (DRO) recovered below QC limits in the Matrix Spike and Matrix Spike

Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 624787-001, -002, -003, -004, -005, -006, -007, -008, -009.

The Laboratory Control Sample for Diesel Range Organics (DRO) is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 624787

Tetra Tech- Midland, Midland, TX

Project Name: EOG Diamond 31 Fed Com 2H

Project Id: 212C-MD-01758
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Mon May-20-19 07:26 am
Report Date: 28-MAY-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	624787-001	624787-002	624787-003	624787-004	624787-005	624787-006
	<i>Field Id:</i>	AH#1 (0-1')	AH#1 (1-1.5')	AH#1 (1.5-2')	AH#2 (0-1')	AH#3 (0-1')	AH#4 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30
	<i>Analyzed:</i>	May-23-19 02:46	May-22-19 23:19	May-22-19 23:38	May-23-19 03:05	May-23-19 09:42	May-23-19 00:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Benzene	0.885 0.100	0.00353 0.00199	<0.00200 0.00200	0.584 0.0996	5.32 2.01	<0.00200 0.00200
	Toluene	14.4 0.100	0.122 0.00199	0.0214 0.00200	14.7 0.0996	98.2 2.01	<0.00200 0.00200
	Ethylbenzene	9.66 0.100	0.144 0.00199	0.0359 0.00200	12.7 0.0996	77.1 2.01	<0.00200 0.00200
	m,p-Xylenes	23.6 0.201	0.372 0.00398	0.130 0.00401	29.4 0.199	168 4.02	<0.00400 0.00400
	o-Xylene	10.2 0.100	0.257 0.00199	0.201 0.00200	11.3 0.0996	65.3 2.01	<0.00200 0.00200
Total Xylenes	33.8 0.100	0.629 0.00199	0.331 0.00200	40.7 0.0996	233 2.01	<0.00200 0.00200	
Total BTEX	58.7 0.100	0.899 0.00199	0.388 0.00200	68.7 0.0996	414 2.01	<0.00200 0.00200	
Chloride by EPA 300	<i>Extracted:</i>	May-20-19 12:00	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30
	<i>Analyzed:</i>	May-20-19 19:06	May-20-19 12:54	May-20-19 13:15	May-20-19 13:33	May-20-19 13:38	May-20-19 13:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride	702 4.98	213 4.97	293 5.03	134 4.95	136 24.8	36.8 5.04	
TPH by SW8015 Mod	<i>Extracted:</i>	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00
	<i>Analyzed:</i>	May-25-19 11:53	May-25-19 04:20	May-25-19 05:19	May-25-19 12:12	May-25-19 12:32	May-25-19 06:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Gasoline Range Hydrocarbons (GRO)	1740 74.7	295 15.0	334 15.0	2590 74.9	6780 150	<15.0 15.0
	Diesel Range Organics (DRO)	6630 74.7	1480 15.0	3660 15.0	13600 74.9	20800 150	822 15.0
	Motor Oil Range Hydrocarbons (MRO)	926 74.7	129 15.0	304 15.0	1830 74.9	2490 150	98.3 15.0
Total TPH	9300 74.7	1900 15.0	4300 15.0	18000 74.9	30100 150	920 15.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 624787

Tetra Tech- Midland, Midland, TX

Project Name: EOG Diamond 31 Fed Com 2H

Project Id: 212C-MD-01758
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Mon May-20-19 07:26 am
Report Date: 28-MAY-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	624787-007	624787-008	624787-009	624787-010	624787-011	
	Field Id:	AH#4 (1-1.5')	AH#4 (1.5-2')	AH#5 (0-1')	AH#5 (1-1.5')	AH#3 (1-1.5')	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	
BTEX by EPA 8021B	Extracted:	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	
	Analyzed:	May-23-19 01:11	May-23-19 01:30	May-23-19 01:49	May-23-19 02:08	May-23-19 22:01	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	7.71 2.01	
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	134 2.01	
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	71.9 2.01	
m,p-Xylenes		<0.00403 0.00403	<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398	168 4.02	
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	60.0 2.01	
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	228 2.01	
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	442 2.01	
Chloride by EPA 300	Extracted:	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	
	Analyzed:	May-20-19 13:59	May-20-19 14:04	May-20-19 14:09	May-20-19 14:14	May-20-19 14:19	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		<5.00 5.00	5.18 5.01	<4.99 4.99	<5.01 5.01	7.36 5.04	
TPH by SW8015 Mod	Extracted:	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00	May-23-19 10:00	May-23-19 10:00	
	Analyzed:	May-25-19 06:37	May-25-19 06:57	May-25-19 07:16	May-23-19 22:20	May-24-19 07:02	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	6520 74.8	
Diesel Range Organics (DRO)		348 15.0	1020 15.0	95.5 15.0	392 15.0	10300 74.8	
Motor Oil Range Hydrocarbons (MRO)		45.1 15.0	134 15.0	15.2 15.0	91.2 15.0	1130 74.8	
Total TPH		393 15.0	1150 15.0	111 15.0	483 15.0	18000 74.8	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3089914

Sample: 624787-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/22/19 23:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	70-130	
4-Bromofluorobenzene	0.0479	0.0300	160	70-130	**

Lab Batch #: 3089914

Sample: 624787-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/22/19 23:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	70-130	
4-Bromofluorobenzene	0.0455	0.0300	152	70-130	**

Lab Batch #: 3089914

Sample: 624787-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 00:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	70-130	
4-Bromofluorobenzene	0.0289	0.0300	96	70-130	

Lab Batch #: 3089914

Sample: 624787-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 01:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0292	0.0300	97	70-130	

Lab Batch #: 3089914

Sample: 624787-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 01:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3089914

Sample: 624787-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 01:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	70-130	
4-Bromofluorobenzene	0.0305	0.0300	102	70-130	

Lab Batch #: 3089914

Sample: 624787-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 02:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	70-130	
4-Bromofluorobenzene	0.0299	0.0300	100	70-130	

Lab Batch #: 3089914

Sample: 624787-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 02:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	70-130	
4-Bromofluorobenzene	0.0578	0.0300	193	70-130	**

Lab Batch #: 3089914

Sample: 624787-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 03:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	70-130	
4-Bromofluorobenzene	0.0560	0.0300	187	70-130	**

Lab Batch #: 3089914

Sample: 624787-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 09:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	70-130	
4-Bromofluorobenzene	0.0412	0.0300	137	70-130	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3089914

Sample: 624787-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 22:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0403	0.0300	134	70-130	**

Lab Batch #: 3090162

Sample: 624787-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 22:20

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.7	100	99	70-135	
o-Terphenyl	55.9	50.0	112	70-135	

Lab Batch #: 3090162

Sample: 624787-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/24/19 07:02

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.7	109	70-135	
o-Terphenyl	62.7	49.9	126	70-135	

Lab Batch #: 3090325

Sample: 624787-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 04:20

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.7	106	70-135	
o-Terphenyl	50.7	49.9	102	70-135	

Lab Batch #: 3090325

Sample: 624787-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 05:19

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	192	200	96	70-135	
o-Terphenyl	110	99.9	110	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3090325

Sample: 624787-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 06:18

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.7	111	70-135	
o-Terphenyl	63.7	49.9	128	70-135	

Lab Batch #: 3090325

Sample: 624787-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 06:37

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.0	100	97	70-135	
o-Terphenyl	52.1	50.0	104	70-135	

Lab Batch #: 3090325

Sample: 624787-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 06:57

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.4	99.8	99	70-135	
o-Terphenyl	60.3	49.9	121	70-135	

Lab Batch #: 3090325

Sample: 624787-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 07:16

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	99.8	129	70-135	
o-Terphenyl	64.6	49.9	129	70-135	

Lab Batch #: 3090325

Sample: 624787-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 11:53

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.7	99.6	96	70-135	
o-Terphenyl	54.8	49.8	110	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3090325

Sample: 624787-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 12:12

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	99.9	90	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 3090325

Sample: 624787-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 12:32

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.9	119	70-135	
o-Terphenyl	37.7	50.0	75	70-135	

Lab Batch #: 3089914

Sample: 7678402-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/22/19 20:28

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	70-130	
4-Bromofluorobenzene	0.0243	0.0300	81	70-130	

Lab Batch #: 3090162

Sample: 7678550-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/23/19 12:58

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.6	100	90	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

Lab Batch #: 3090325

Sample: 7678655-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/25/19 03:02

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.4	100	95	70-135	
o-Terphenyl	47.4	50.0	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3089914

Sample: 7678402-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/22/19 18:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	70-130	
4-Bromofluorobenzene	0.0283	0.0300	94	70-130	

Lab Batch #: 3090162

Sample: 7678550-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/23/19 13:18

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	45.1	50.0	90	70-135	

Lab Batch #: 3090325

Sample: 7678655-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/25/19 03:21

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	47.9	50.0	96	70-135	

Lab Batch #: 3089914

Sample: 7678402-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/22/19 19:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3090162

Sample: 7678550-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/23/19 13:38

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	45.9	50.0	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3090325

Sample: 7678655-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/25/19 03:41

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	48.6	50.0	97	70-135	

Lab Batch #: 3089914

Sample: 624786-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/22/19 19:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0308	0.0300	103	70-130	

Lab Batch #: 3090162

Sample: 624937-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 14:18

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.9	108	70-135	
o-Terphenyl	46.7	50.0	93	70-135	

Lab Batch #: 3090325

Sample: 624787-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 04:39

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.7	116	70-135	
o-Terphenyl	53.5	49.9	107	70-135	

Lab Batch #: 3089914

Sample: 624786-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/22/19 19:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0305	0.0300	102	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3090162

Sample: 624937-001 SD / MSD

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 05/23/19 14:38

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.9	107	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

Lab Batch #: 3090325

Sample: 624787-002 SD / MSD

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 05/25/19 04:59

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	99.8	123	70-135	
o-Terphenyl	56.6	49.9	113	70-135	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order #: 624787

Project ID: 212C-MD-01758

Analyst: SCM

Date Prepared: 05/22/2019

Date Analyzed: 05/22/2019

Lab Batch ID: 3089914

Sample: 7678402-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000384	0.0998	0.0937	94	0.100	0.112	112	18	70-130	35	
Toluene	<0.000455	0.0998	0.0911	91	0.100	0.107	107	16	70-130	35	
Ethylbenzene	<0.000564	0.0998	0.0937	94	0.100	0.110	110	16	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.193	97	0.200	0.226	113	16	70-130	35	
o-Xylene	<0.000344	0.0998	0.0952	95	0.100	0.114	114	18	70-130	35	

Analyst: SPC

Date Prepared: 05/20/2019

Date Analyzed: 05/20/2019

Lab Batch ID: 3089549

Sample: 7678188-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	261	104	250	263	105	1	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order #: 624787

Project ID: 212C-MD-01758

Analyst: CHE

Date Prepared: 05/20/2019

Date Analyzed: 05/20/2019

Lab Batch ID: 3089621

Sample: 7678199-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	1.47	250	242	97	250	242	97	0	90-110	20	

Analyst: ARM

Date Prepared: 05/23/2019

Date Analyzed: 05/23/2019

Lab Batch ID: 3090162

Sample: 7678550-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1040	104	1000	1020	102	2	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	995	100	1000	985	99	1	70-135	20	

Analyst: ARM

Date Prepared: 05/24/2019

Date Analyzed: 05/25/2019

Lab Batch ID: 3090325

Sample: 7678655-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1080	108	1000	1060	106	2	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	1020	102	1000	998	100	2	70-135	20	

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order # : 624787

Project ID: 212C-MD-01758

Lab Batch ID: 3089914

QC- Sample ID: 624786-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 05/22/2019

Date Prepared: 05/22/2019

Analyst: SCM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.000528	0.0994	0.0885	89	0.100	0.0984	98	11	70-130	35	
Toluene	0.000528	0.0994	0.0850	85	0.100	0.0942	94	10	70-130	35	
Ethylbenzene	<0.000561	0.0994	0.0851	86	0.100	0.0950	95	11	70-130	35	
m,p-Xylenes	<0.00101	0.199	0.175	88	0.201	0.194	97	10	70-130	35	
o-Xylene	0.000528	0.0994	0.0863	86	0.100	0.0968	96	11	70-130	35	

Lab Batch ID: 3089549

QC- Sample ID: 624787-002 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 05/20/2019

Date Prepared: 05/20/2019

Analyst: SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	213	249	464	101	249	463	100	0	90-110	20	

Lab Batch ID: 3089549

QC- Sample ID: 624787-011 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 05/20/2019

Date Prepared: 05/20/2019

Analyst: SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	7.36	252	272	105	252	273	105	0	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order # : 624787

Project ID: 212C-MD-01758

Lab Batch ID: 3089621

QC- Sample ID: 624761-004 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 05/20/2019

Date Prepared: 05/20/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	134	251	369	94	251	366	92	1	90-110	20	

Lab Batch ID: 3089621

QC- Sample ID: 624761-006 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 05/20/2019

Date Prepared: 05/20/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1180	249	1370	76	249	1380	80	1	90-110	20	X

Lab Batch ID: 3090162

QC- Sample ID: 624937-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 05/23/2019

Date Prepared: 05/23/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	10.4	999	1080	107	999	1100	109	2	70-135	20	
Diesel Range Organics (DRO)	57.3	999	1020	96	999	1030	97	1	70-135	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order # : 624787

Project ID: 212C-MD-01758

Lab Batch ID: 3090325

QC- Sample ID: 624787-002 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 05/25/2019

Date Prepared: 05/24/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	295	997	1330	104	998	1350	106	1	70-135	20	
Diesel Range Organics (DRO)	1480	997	1960	48	998	2000	52	2	70-135	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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: **EOG** Site Manager: **Mike Carmona**

Project Name: **Diamond 31 Fed Com 2H**

Project Location: **Lea Co, NM**

Project #: **212C-MD-01758**

Invoice to: **EOG - James Kennedy**

Receiving Laboratory: **Xenco**

Sampler Signature: **Conner Moehring**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2019							
	AH #1 (0-1')			5/17/2019		X	X	1	N
	AH #1 (1-1.5')			5/17/2019		X	X	1	N
	AH #1 (1.5-2')			5/17/2019		X	X	1	N
	AH #2 (0-1')			5/17/2019		X	X	1	N
	AH #3 (0-1')			5/17/2019		X	X	1	N
	AH #4 (0-1')			5/17/2019		X	X	1	N
	AH #4 (1-1.5')			5/17/2019		X	X	1	N
	AH #4 (1.5-2')			5/17/2019		X	X	1	N
	AH #5 (0-1')			5/17/2019		X	X	1	N
	AH #5 (1-1.5')			5/17/2019		X	X	1	N

Received by: *[Signature]* Date: 5/17/19 Time: 14:40

Received by: *[Signature]* Date: 5/17/19 Time: 14:40

Received by: *[Signature]* Date: 5/17/19 Time: 07:40

Received by: *[Signature]* Date: 5/17/19 Time: 07:40

LAB USE ONLY

REMARKS:

RUSH: Same Day 24 hr 48 hr 72 hr

STANDARD

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: 4.9/4.7

18-0.2

LAB USE ONLY

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

ORIGINAL COPY

1024747

5/17/2019

ORIGIN ID:CAOA (281) 240-4200
 SAMPLE CUSTODY
 SAMPLE CUSTODY
 1089 N CANAL ST
 CARLSBAD, NM 88220
 UNITED STATES US

SHIP DATE: 17MAY19
 ACTWGT: 59.00 LB
 CAD: 114488676/NET4100
 DIMS: 24x13x13 IN
 BILL SENDER

200 W INTERSTATE 20

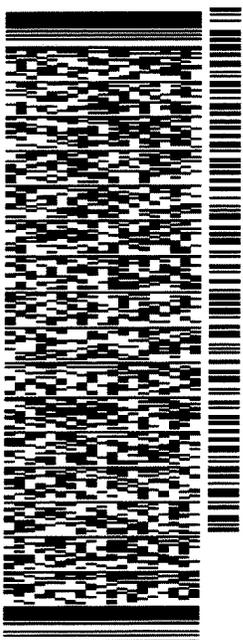
MIDLAND TX 79701

(432) 704-5440

REF:

PO:

DEPT:



565J1/D66C/23AD

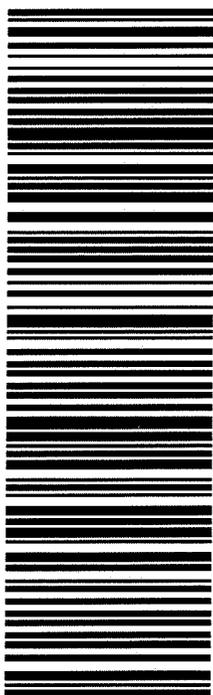
TRK# 7752 4951 5802
 0201

SATURDAY HOLD
 PRIORITY OVERNIGHT

41 MAFA

TX-US

HL D 79701
 LBB



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 05/20/2019 07:26:00 AM

Work Order #: 624787

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 05/20/2019
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 05/20/2019
Jessica Kramer



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

June 28, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/27/19 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 1 (2' BEB) (H902220-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/27/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	10.6	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 70.2 % 41-142

Surrogate: 1-Chlorooctadecane 75.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 2 (2' BEB) (H902220-02)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	0.055	0.050	06/27/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	14.2	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 3 (2' BEB) (H902220-03)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/27/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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

Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 4 (2' BEB) (H902220-04)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/27/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	34.9	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	11.5	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.1 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 5 (2' BEB) (H902220-05)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.3 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 6 (2' BEB) (H902220-06)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 78.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 7 (2' BEB) (H902220-07)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	17.6	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.5 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 8 (2' BEB) (H902220-08)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	0.054	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 9 (2' BEB) (H902220-09)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	18.3	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 78.7 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 10 (2' BEB) (H902220-10)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	54.1	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	18.7	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 80.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 11 (2' BEB) (H902220-11)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	12.8	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 12 (2' BEB) (H902220-12)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	82.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	24.9	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.4 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 13 (2' BEB) (H902220-13)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	13.9	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 61.6 % 41-142

Surrogate: 1-Chlorooctadecane 67.2 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 14 (2' BEB) (H902220-14)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 15 (2' BEB) (H902220-15)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	19.9	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 67.8 % 41-142

Surrogate: 1-Chlorooctadecane 73.5 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 16 (2' BEB) (H902220-16)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	0.059	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 60.7 % 41-142

Surrogate: 1-Chlorooctadecane 65.1 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 17 (2' BEB) (H902220-17)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84	
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 71.7 % 41-142

Surrogate: 1-Chlorooctadecane 77.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 18 (2' BEB) (H902220-18)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	30.4	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 19 (2' BEB) (H902220-19)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 20 (2' BEB) (H902220-20)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 21 (2' BEB) (H902220-21)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 73.2 % 41-142

Surrogate: 1-Chlorooctadecane 76.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 22 (2' BEB) (H902220-22)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 99.3 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 23 (2' BEB) (H902220-23)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 24 (2' BEB) (H902220-24)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEX	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/28/2019	ND	432	108	400	0.00	QR-03	

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	06/28/2019	ND	199	99.3	200	0.276		
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671		
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND						

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 25 (2' BEB) (H902220-25)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 26 (2' BEB) (H902220-26)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	18.2	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 27 (2' BEB) (H902220-27)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	44.7	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	17.2	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 28 (2' BEB) (H902220-28)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	22.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 98.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 29 (2' BEB) (H902220-29)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	10.7	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 30 (2' BEB) (H902220-30)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	41.4	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 31 (2' BEB) (H902220-31)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	14.2	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 32 (2' BEB) (H902220-32)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 33 (2' BEB) (H902220-33)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	25.8	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 98.9 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 34 (2' BEB) (H902220-34)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: NSW - 1 (H902220-35)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: ESW - 1 (H902220-36)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	31.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: WSW - 1 (H902220-37)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SSW - 1 (H902220-38)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	2.04	102	2.00	0.644	
Toluene*	<0.050	0.050	06/28/2019	ND	2.08	104	2.00	0.380	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.94	96.9	2.00	1.34	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.95	99.1	6.00	1.78	
Total BTEX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	188	93.8	200	3.60	
DRO >C10-C28*	43.9	10.0	06/28/2019	ND	193	96.4	200	2.70	
EXT DRO >C28-C36	21.9	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 68.0 % 41-142

Surrogate: 1-Chlorooctadecane 79.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

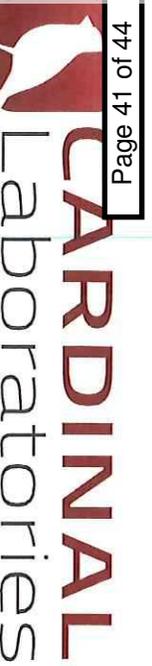
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

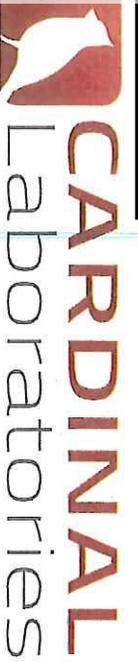
ANALYSIS REQUEST

Company Name: **Texas Tech**
 Project Manager: **Mike Curran**
 Address: **901 W. Wall St.**
 City: **Midland** State: **TX** zip: **79701**
 Phone #: **432-279-0197** Fax #: _____
 Project #: **212C-MD-01NS8** Project Owner: **ETG**
 Project Name: **Diamond 31 Fee Can 2H**
 Project Location: **Lea Co. NM**
 Sampler Name: **Shaun Reas**
 P.O. #: _____
 Company: **ETG**
 Attn: **James Kennedy**
 Address: **5504 Champions Dr.**
 City: **Midland**
 State: **TX** zip: **79706**
 Phone #: **432-258-4546**
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:			
H002200	Bottom Hole 1 (2'BE0)		1			X				6/29/14		BTEX 8021 B
	Bottom Hole 2 (2'BE8)		1			X				6/29/14		TPH 8015 M
	Bottom Hole 3 (2'BE8)		1			X				6/29/14		Chloride
	Bottom Hole 4 (2'BE8)		1			X				6/29/14		
	Bottom Hole 5 (2'BE8)		1			X				6/29/14		
	Bottom Hole 6 (2'BE8)		1			X				6/29/14		
	Bottom Hole 7 (2'BE8)		1			X				6/29/14		
	Bottom Hole 8 (2'BE8)		1			X				6/29/14		
	Bottom Hole 9 (2'BE8)		1			X				6/29/14		
	Bottom Hole 10 (2'BE8)		1			X				6/29/14		

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Relinquished By: _____ Date: **6-27-19** Received By: **Shawna Elbert**
 Relinquished By: _____ Date: **6:30** Received By: _____
 Time: _____
 Delivered By: (Circle One) **UPS** Sample Condition: Intact Cool Yes No Yes No
 Checked By: (Initials) **RS**
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: **RUSH**



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Texra Tech
 Project Manager: Mike Carranza
 Address: 901 W. Wall St.
 City: Midland State: TX Zip: 79201
 Phone #: 432-229-6197 Fax #: _____
 Project #: 212C-MD-01958 Project Owner: ESG
 Project Name: Diamond 31 Fea Can 24
 Project Location: Lea Co, NM
 Sampler Name: Stephen Reiter

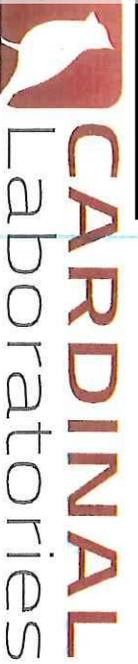
P.O. #: _____
 Company: ESG
 Attn: James Kennedy
 Address: 5504 Champaign Dr.
 City: Midland State: TX Zip: 79206
 Phone #: 432-258-4546 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HD00220			1											
-21	BATTOM Hole 21 (2'BEU)		1	X					6/21/14		X	X	X	
-22	BATTOM Hole 22 (2'BEU)		1	X					6/21/14		X	X	X	
-23	BATTOM Hole 23 (2'BEU)		1	X					6/21/14		X	X	X	
-24	BATTOM Hole 24 (2'BEU)		1	X					6/21/14		X	X	X	
-25	BATTOM Hole 25 (2'BEU)		1	X					6/21/14		X	X	X	
-26	BATTOM Hole 26 (2'BEU)		1	X					6/21/14		X	X	X	
-27	BATTOM Hole 27 (2'BEU)		1	X					6/21/14		X	X	X	
-28	BATTOM Hole 28 (2'BEU)		1	X					6/21/14		X	X	X	
-29	BATTOM Hole 29 (2'BEU)		1	X					6/21/14		X	X	X	
-30	BATTOM Hole 30 (2'BEU)		1	X					6/21/14		X	X	X	

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Relinquished By: _____ Date: 6-27-19
 Relinquished By: _____ Date: 7-11-30
 Received By: James Kennedy

Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact
 Yes No
 CHECKED BY: _____ (Initials)
 REMARKS: ROSH



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: **Texra Tech**
 Project Manager: **Mike Curran**
 Address: **901 W. Hall St.**
 City: **Midland** State: **TX** Zip: **79701**
 Phone #: **432-229-6197** Fax #:
 Project #: **212C-MW-01958** Project Owner: **EGG**
 Project Name: **Diamond 31 Fea Can 24**
 Project Location: **Lea Co. NM**
 Sampler Name: **Stephen Rees**

P.O. #:
 Company: **EGG**
 Attn: **James Kennedy**
 Address: **5504 Cleveland Dr.**
 City: **Midland**
 State: **TX** Zip: **79706**
 Phone #: **432-258-4546**
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	BTEX	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
H00000	Burton Hole 31 (2'BE)		1	X								6/21/14		X	X	X	
	Burton Hole 32 (2'BE)		1	X								6/21/14		X	X	X	
	Burton Hole 33 (2'BE)		1	X								6/21/14		X	X	X	
	Burton Hole 34 (2'BE)		1	X								6/21/14		X	X	X	
	NSW-1		1									6/21/14		X	X	X	
	ESW-1		1									6/21/14		X	X	X	
	WSW-1		1									6/21/14		X	X	X	
	SSW-1		1									6/21/14		X	X	X	

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Relinquished By: *[Signature]*
 Date: **6-27-19**
 Time: **14:30**

Received By: *[Signature]*
 Date: **6-27-19**
 Time: **14:30**

Sample Condition
 Cool Intact
 Yes No
 Checked By: *[Signature]*

REMARKS:
RUSH

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: **Other**
[Signature]



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

July 09, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 07/03/19 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



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

Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BOTTOM HOLE 12 (2' BEB)	H902290-01	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 35 (5' BEB)	H902290-02	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 36 (5' BEB)	H902290-03	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 37 (5' BEB)	H902290-04	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 38 (5' BEB)	H902290-05	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 39 (5' BEB)	H902290-06	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 40 (5' BEB)	H902290-07	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 41 (5' BEB)	H902290-08	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 42 (5' BEB)	H902290-09	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 43 (5' BEB)	H902290-10	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 44 (5' BEB)	H902290-11	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 45 (5' BEB)	H902290-12	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 46 (5' BEB)	H902290-13	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 47 (5' BEB)	H902290-14	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 48 (5' BEB)	H902290-15	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 49 (4' BEB)	H902290-16	Soil	03-Jul-19 00:00	03-Jul-19 12:45
NSW - 2	H902290-17	Soil	03-Jul-19 00:00	03-Jul-19 12:45
SSW - 2	H902290-18	Soil	03-Jul-19 00:00	03-Jul-19 12:45
ESW - 2	H902290-19	Soil	03-Jul-19 00:00	03-Jul-19 12:45
WSW - 2	H902290-20	Soil	03-Jul-19 00:00	03-Jul-19 12:45
ESW - 3	H902290-21	Soil	03-Jul-19 00:00	03-Jul-19 12:45
WSW - 3	H902290-22	Soil	03-Jul-19 00:00	03-Jul-19 12:45
NSW - 3	H902290-23	Soil	03-Jul-19 00:00	03-Jul-19 12:45
SSW - 3	H902290-24	Soil	03-Jul-19 00:00	03-Jul-19 12:45
ESW - 4	H902290-25	Soil	03-Jul-19 00:00	03-Jul-19 12:45
WSW - 4	H902290-26	Soil	03-Jul-19 00:00	03-Jul-19 12:45

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

07/09/19 - Client called and brought to our attention that we put the wrong sample ID for -20. This is the revised report with the corrected sample ID for -20. This report will replace the one sent on 07/05/19.

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
---	--	------------------------------

**BOTTOM HOLE 12 (2' BEB)
H902290-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			123 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	
DRO >C10-C28*	30.7		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	
EXT DRO >C28-C36	23.8		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	

Surrogate: 1-Chlorooctane			97.9 %		41-142	9070313	MS	03-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			104 %		37.6-147	9070313	MS	03-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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BOTTOM HOLE 35 (5' BEB)

H902290-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	

Surrogate: 1-Chlorooctane			95.6 %		41-142	9070313	MS	03-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		37.6-147	9070313	MS	03-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**BOTTOM HOLE 36 (5' BEB)
H902290-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	256		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			101 %	41-142		9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			107 %	37.6-147		9070313	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 37 (5' BEB)**H902290-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.5 %	41-142		9070313	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	37.6-147		9070313	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 38 (5' BEB)**H902290-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.2 %		41-142	9070313	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		37.6-147	9070313	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 39 (5' BEB)**H902290-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.2 %		41-142	9070313	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.7 %		37.6-147	9070313	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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BOTTOM HOLE 40 (5' BEB)

H902290-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			103 %		41-142	9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		37.6-147	9070313	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**BOTTOM HOLE 41 (5' BEB)
H902290-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	272		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			95.6 %		41-142	9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		37.6-147	9070313	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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BOTTOM HOLE 42 (5' BEB)

H902290-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			104 %	41-142		9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	37.6-147		9070313	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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BOTTOM HOLE 43 (5' BEB)

H902290-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			104 %		41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			111 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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BOTTOM HOLE 44 (5' BEB)

H902290-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			126 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			101 %		41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			108 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 45 (5' BEB)**H902290-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %	41-142		9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %	37.6-147		9070316	MS	04-Jul-19	8015B	
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 46 (5' BEB)**H902290-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.0 %	41-142		9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.0 %	37.6-147		9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 47 (5' BEB)**H902290-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.3 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 48 (5' BEB)**H902290-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.7 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.3 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 49 (4' BEB)**H902290-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.5 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**NSW - 2
H902290-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.1 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			109 %		41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			114 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**SSW - 2
H902290-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.2 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**ESW - 2
H902290-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			102 %		41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			109 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**WSW - 2
H902290-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3-129		9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			105 %	41-142		9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	37.6-147		9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

ESW - 3**H902290-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			109 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**WSW - 3
H902290-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	192		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.7 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			97.6 %		41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			104 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**NSW - 3
H902290-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			101 %		41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**SSW - 3
H902290-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.2 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.3 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**ESW - 4
H902290-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			104 %	41-142		9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			108 %	37.6-147		9070316	MS	04-Jul-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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**WSW - 4
H902290-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9070403	AC	04-Jul-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			100 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %		37.6-147	9070316	MS	04-Jul-19	8015B	
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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9070401 - 1:4 DI Water

Blank (9070401-BLK1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
Chloride	ND	16.0	mg/kg							
LCS (9070401-BS1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (9070401-BSD1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
Chloride	400	16.0	mg/kg	400		100	80-120	7.69	20	

Batch 9070402 - 1:4 DI Water

Blank (9070402-BLK1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
Chloride	ND	16.0	mg/kg							
LCS (9070402-BS1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9070402-BSD1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	

Batch 9070403 - 1:4 DI Water

Blank (9070403-BLK1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
Chloride	ND	16.0	mg/kg							
LCS (9070403-BS1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
Chloride	400	16.0	mg/kg	400		100	80-120			

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9070403 - 1:4 DI Water

LCS Dup (9070403-BSD1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9070310 - Volatiles**Blank (9070310-BLK1)**

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0971</i>		<i>mg/kg</i>	<i>0.100</i>		<i>97.1</i>	<i>73.3-129</i>			

LCS (9070310-BS1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Benzene	1.66	0.050	mg/kg	2.00		82.9	72.2-131			
Toluene	1.76	0.050	mg/kg	2.00		88.1	71.7-126			
Ethylbenzene	1.72	0.050	mg/kg	2.00		85.8	68.9-126			
Total Xylenes	5.23	0.150	mg/kg	6.00		87.1	71.4-125			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0986</i>		<i>mg/kg</i>	<i>0.100</i>		<i>98.6</i>	<i>73.3-129</i>			

LCS Dup (9070310-BSD1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Benzene	1.62	0.050	mg/kg	2.00		80.8	72.2-131	2.61	6.91	
Toluene	1.71	0.050	mg/kg	2.00		85.6	71.7-126	2.88	7.12	
Ethylbenzene	1.67	0.050	mg/kg	2.00		83.6	68.9-126	2.61	7.88	
Total Xylenes	5.05	0.150	mg/kg	6.00		84.1	71.4-125	3.57	7.46	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0973</i>		<i>mg/kg</i>	<i>0.100</i>		<i>97.3</i>	<i>73.3-129</i>			

Batch 9070315 - Volatiles**Blank (9070315-BLK1)**

Prepared & Analyzed: 03-Jul-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.107</i>		<i>mg/kg</i>	<i>0.100</i>		<i>107</i>	<i>73.3-129</i>			

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* = Accredited Analyte

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9070315 - Volatiles

LCS (9070315-BS1)

Prepared & Analyzed: 03-Jul-19

Benzene	1.61	0.050	mg/kg	2.00		80.5	72.2-131			
Toluene	1.75	0.050	mg/kg	2.00		87.4	71.7-126			
Ethylbenzene	1.74	0.050	mg/kg	2.00		86.8	68.9-126			
Total Xylenes	5.28	0.150	mg/kg	6.00		88.0	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	73.3-129			

LCS Dup (9070315-BSD1)

Prepared & Analyzed: 03-Jul-19

Benzene	1.43	0.050	mg/kg	2.00		71.5	72.2-131	11.8	6.91	QR-04, BS2
Toluene	1.59	0.050	mg/kg	2.00		79.3	71.7-126	9.68	7.12	QR-04
Ethylbenzene	1.57	0.050	mg/kg	2.00		78.3	68.9-126	10.4	7.88	QR-04
Total Xylenes	4.76	0.150	mg/kg	6.00		79.4	71.4-125	10.3	7.46	QR-04
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100		104	73.3-129			

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9070313 - General Prep - Organics

Blank (9070313-BLK1)		Prepared & Analyzed: 03-Jul-19								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.7	41-142			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	37.6-147			

LCS (9070313-BS1)		Prepared & Analyzed: 03-Jul-19								
GRO C6-C10	203	10.0	mg/kg	200		102	76.5-133			
DRO >C10-C28	197	10.0	mg/kg	200		98.7	72.9-138			
Total TPH C6-C28	400	10.0	mg/kg	400		100	78-132			
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	41-142			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	37.6-147			

LCS Dup (9070313-BSD1)		Prepared & Analyzed: 03-Jul-19								
GRO C6-C10	208	10.0	mg/kg	200		104	76.5-133	2.47	20.6	
DRO >C10-C28	199	10.0	mg/kg	200		99.3	72.9-138	0.675	20.6	
Total TPH C6-C28	407	10.0	mg/kg	400		102	78-132	1.59	18	
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	41-142			
Surrogate: 1-Chlorooctadecane	52.3		mg/kg	50.0		105	37.6-147			

Batch 9070316 - General Prep - Organics

Blank (9070316-BLK1)		Prepared: 03-Jul-19 Analyzed: 04-Jul-19								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	41-142			
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.5	37.6-147			

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: DIAMOND 31 FED COM 2H Project Number: 212C-MD-01758 Project Manager: MIKE CARMONA Fax To: (432) 682-3946	Reported: 09-Jul-19 16:25
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9070316 - General Prep - Organics

LCS (9070316-BS1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

GRO C6-C10	197	10.0	mg/kg	200		98.7	76.5-133			
DRO >C10-C28	199	10.0	mg/kg	200		99.3	72.9-138			
Total TPH C6-C28	396	10.0	mg/kg	400		99.0	78-132			
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	41-142			
Surrogate: 1-Chlorooctadecane	50.1		mg/kg	50.0		100	37.6-147			

LCS Dup (9070316-BSD1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

GRO C6-C10	202	10.0	mg/kg	200		101	76.5-133	2.49	20.6	
DRO >C10-C28	198	10.0	mg/kg	200		98.9	72.9-138	0.396	20.6	
Total TPH C6-C28	400	10.0	mg/kg	400		100	78-132	1.05	18	
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	41-142			
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	37.6-147			

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- BS2 Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

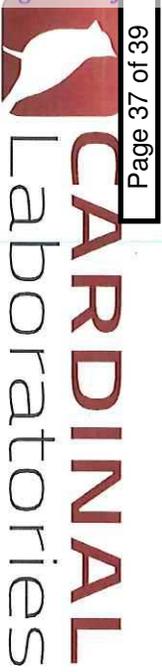
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:	
Project Manager: Mike Carmona		Company: EDC	
Address: 901 W. Wall St.		Attn: Tamara Kennedy	
City: Midland		Address: 5504 Champion Dr.	
Phone #: 432-220-0149 Fax #:		City: Midland	
Project #: 212C-MD-01758 Project Owner: EDC		State: TX Zip: 79706	
Project Name: Diamond 31 Fed Com 24		Phone #: 432-258-4546	
Project Location: Len Co., NM		Fax #:	
Sampler Name: Stephen Reyes			
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.		
H902290			
1 Bottom Hole 12 (2' BEB)	(G)RAB OR (C)OMP.		
2 Bottom Hole 35 (5' BEB)	# CONTAINERS		
3 Bottom Hole 36 (5' BEB)	GROUNDWATER		
4 Bottom Hole 37 (5' BEB)	WASTEWATER		
5 Bottom Hole 38 (5' BEB)	SOIL		
6 Bottom Hole 39 (5' BEB)	OIL		
7 Bottom Hole 40 (5' BEB)	SLUDGE		
8 Bottom Hole 41 (5' BEB)	OTHER:		
9 Bottom Hole 42 (5' BEB)	ACID/BASE:		
10 Bottom Hole 43 (5' BEB)	ICE / COOL		
	OTHER:		
	DATE		
	TIME		
		BTEX 8021 B	
		TPT 8015 M	
		Chloride	

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Reinquished By:

Date: **7-3-19**

Time: **12:45**

Received By:

Date: _____

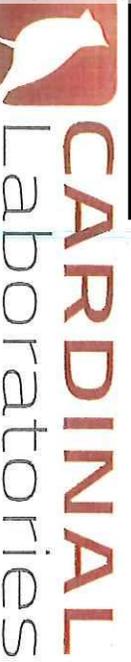
Time: _____

Delivered By: (Circle One) **UPS** - Bus - Other: **3.8c #97**

Sample Condition: Cool Intact

Checked By:

REMARKS: **RUSIF**



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech
 Project Manager: Mike Carmana
 Address: 901 W. Wall St.
 City: Middland State: TX zip: 79701
 Phone #: 432-220-0199 Fax #: _____
 Project #: 212C-MO-01758 Project Owner: EDG
 Project Name: Diamond 31 Fed Com 24
 Project Location: Lea Co, NM
 Sampler Name: Stephen Reyes
 P.O. #: _____
 Company: EDG
 Attn: Tamas Kenedy
 Address: 5504 Champaign Dr.
 City: Middland
 State: TX zip: 79706
 Phone #: 432-258-4546
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPT	Chloride			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
#902296	Borum Hole 44 (S'VEG)		1			X				9/3/14							
	Borum Hole 45 (S'VEG)		1			X				9/3/14							
	Borum Hole 46 (S'VEG)		1			X				9/3/14							
	Borum Hole 49 (S'VEG)		1			X				9/3/14							
	Borum Hole 48 (S'VEG)		1			X				9/3/14							
	Borum Hole 49 (S'VEG)		1			X				9/3/14							
	NSW-2		1			X				9/3/14							
	SSW-2		1			X				9/3/14							
	ESW-2		1			X				9/3/14							
	WSW-2		1			X				9/3/14							

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____ Date: 9-3-19
 Relinquished By: _____ Date: 12:45
 Received By: Jessica Decker

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: RUSIF

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 3.8c #97
 Sample Condition: Cool Intact Yes No
 CHECKED BY: TO



Certificate of Analysis Summary 630254

Tetra Tech- Midland, Midland, TX

Project Name: EOG Diamond 31 Fed Com 2H

Project Id: 212C-MD-01758
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-09-19 03:02 pm
Report Date: 11-JUL-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	630254-001	630254-002	630254-003	630254-004		
	Field Id:	Bottom Hole 50 (0-1' BEB)	Bottom Hole 51 (0-1' BEB)	Bottom Hole 52 (0-1' BEB)	Bottom Hole 53 (0-1' BEB)		
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Jul-09-19 00:00	Jul-09-19 00:00	Jul-09-19 00:00	Jul-09-19 00:00		
BTEX by EPA 8021B	Extracted:	Jul-09-19 17:00	Jul-09-19 17:00	Jul-09-19 17:00	Jul-09-19 17:00		
	Analyzed:	Jul-10-19 01:10	Jul-10-19 12:26	Jul-10-19 06:42	Jul-10-19 02:41		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
	Benzene	0.00455 0.000384	0.00282 0.000386	1.10 0.00771	0.108 0.00385		
	Toluene	0.0820 0.000455	0.00854 0.000457	4.21 D 0.0457	0.637 0.00456		
	Ethylbenzene	0.0467 0.000564	0.0128 0.000567	1.99 D 0.0566	0.466 0.00565		
	m,p-Xylenes	0.0851 0.00101	0.0241 0.00102	5.05 D 0.102	5.84 0.0101		
	o-Xylene	0.216 0.000344	0.0110 0.000346	2.88 D 0.0345	3.97 0.00344		
Total Xylenes	0.301 0.000344	0.0351 0.000346	7.93 0.0345	9.81 0.00344			
Total BTEX	0.434 0.000344	0.0593 0.000346	15.2 0.00771	11.0 0.00344			
Chloride by EPA 300	Extracted:	Jul-09-19 16:40	Jul-09-19 16:40	Jul-09-19 16:40	Jul-09-19 16:40		
	Analyzed:	Jul-09-19 19:13	Jul-09-19 19:33	Jul-09-19 19:38	Jul-09-19 19:42		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride	213 0.858	289 0.862	40.9 0.860	573 0.852			
TPH By SW8015 Mod	Extracted:	*** ** *	*** ** *	*** ** *	*** ** *		
	Analyzed:	Jul-10-19 01:25	Jul-10-19 01:49	Jul-10-19 02:13	Jul-10-19 02:37		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
	Gasoline Range Hydrocarbons (GRO)	375 7.97	292 7.99	1510 8.00	763 7.99		
	Diesel Range Organics (DRO)	2060 8.10	4620 8.11	3160 8.13	2620 8.12		
Motor Oil Range Hydrocarbons (MRO)	116 8.10	290 8.11	153 8.13	125 8.12			
Total TPH	2550 7.97	5200 7.99	4820 8.00	3510 7.99			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.0%

Jessica Kramer

Jessica Kramer
Project Assistant

Analytical Report 630254

for
Tetra Tech- Midland

Project Manager: Mike Carmona

EOG Diamond 31 Fed Com 2H

212C-MD-01758

11-JUL-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11-JUL-19

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **630254**

EOG Diamond 31 Fed Com 2H

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 630254. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 630254 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole 50 (0-1' BEB)	S	07-09-19 00:00		630254-001
Bottom Hole 51 (0-1' BEB)	S	07-09-19 00:00		630254-002
Bottom Hole 52 (0-1' BEB)	S	07-09-19 00:00		630254-003
Bottom Hole 53 (0-1' BEB)	S	07-09-19 00:00		630254-004



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: EOG Diamond 31 Fed Com 2H

Project ID: 212C-MD-01758
Work Order Number(s): 630254

Report Date: 11-JUL-19
Date Received: 07/09/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3094959 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 630254-003,630254-001,630254-002,630254-004.



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 50 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-001

Date Collected: 07.09.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.19 16.40

Basis: Wet Weight

Seq Number: 3094879

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	213	5.00	0.858	mg/kg	07.09.19 19.13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.09.19 14.00

Basis: Wet Weight

Seq Number: 3094854

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	375	14.9	7.97	mg/kg	07.10.19 01.25		1
Diesel Range Organics (DRO)	C10C28DRO	2060	14.9	8.10	mg/kg	07.10.19 01.25		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	116	14.9	8.10	mg/kg	07.10.19 01.25		1
Total TPH	PHC635	2550	14.9	7.97	mg/kg	07.10.19 01.25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	07.10.19 01.25	
o-Terphenyl	84-15-1	93	%	70-135	07.10.19 01.25	



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 50 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-001

Date Collected: 07.09.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 17.00

Basis: Wet Weight

Seq Number: 3094959

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00455	0.00200	0.000384	mg/kg	07.10.19 01.10		1
Toluene	108-88-3	0.0820	0.00200	0.000455	mg/kg	07.10.19 01.10		1
Ethylbenzene	100-41-4	0.0467	0.00200	0.000564	mg/kg	07.10.19 01.10		1
m,p-Xylenes	179601-23-1	0.0851	0.00399	0.00101	mg/kg	07.10.19 01.10		1
o-Xylene	95-47-6	0.216	0.00200	0.000344	mg/kg	07.10.19 01.10		1
Total Xylenes	1330-20-7	0.301	0.00200	0.000344	mg/kg	07.10.19 01.10		1
Total BTEX		0.434	0.00200	0.000344	mg/kg	07.10.19 01.10		1
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4		183	%	70-130	07.10.19 01.10	**	
1,4-Difluorobenzene	540-36-3		94	%	70-130	07.10.19 01.10		



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 51 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-002

Date Collected: 07.09.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.19 16.40

Basis: Wet Weight

Seq Number: 3094879

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	289	5.02	0.862	mg/kg	07.09.19 19.33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.09.19 14.00

Basis: Wet Weight

Seq Number: 3094854

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	292	15.0	7.99	mg/kg	07.10.19 01.49		1
Diesel Range Organics (DRO)	C10C28DRO	4620	15.0	8.11	mg/kg	07.10.19 01.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	290	15.0	8.11	mg/kg	07.10.19 01.49		1
Total TPH	PHC635	5200	15.0	7.99	mg/kg	07.10.19 01.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	07.10.19 01.49	
o-Terphenyl	84-15-1	118	%	70-135	07.10.19 01.49	



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 51 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-002

Date Collected: 07.09.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 17.00

Basis: Wet Weight

Seq Number: 3094959

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00282	0.00201	0.000386	mg/kg	07.10.19 12.26		1
Toluene	108-88-3	0.00854	0.00201	0.000457	mg/kg	07.10.19 12.26		1
Ethylbenzene	100-41-4	0.0128	0.00201	0.000567	mg/kg	07.10.19 12.26		1
m,p-Xylenes	179601-23-1	0.0241	0.00402	0.00102	mg/kg	07.10.19 12.26		1
o-Xylene	95-47-6	0.0110	0.00201	0.000346	mg/kg	07.10.19 12.26		1
Total Xylenes	1330-20-7	0.0351	0.00201	0.000346	mg/kg	07.10.19 12.26		1
Total BTEX		0.0593	0.00201	0.000346	mg/kg	07.10.19 12.26		1
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4		161	%	70-130	07.10.19 12.26	**	
1,4-Difluorobenzene	540-36-3		90	%	70-130	07.10.19 12.26		



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 52 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-003

Date Collected: 07.09.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.19 16.40

Basis: Wet Weight

Seq Number: 3094879

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.9	5.01	0.860	mg/kg	07.09.19 19.38		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.09.19 14.00

Basis: Wet Weight

Seq Number: 3094854

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1510	15.0	8.00	mg/kg	07.10.19 02.13		1
Diesel Range Organics (DRO)	C10C28DRO	3160	15.0	8.13	mg/kg	07.10.19 02.13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	153	15.0	8.13	mg/kg	07.10.19 02.13		1
Total TPH	PHC635	4820	15.0	8.00	mg/kg	07.10.19 02.13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	07.10.19 02.13	
o-Terphenyl	84-15-1	112	%	70-135	07.10.19 02.13	



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 52 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-003

Date Collected: 07.09.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 17.00

Basis: Wet Weight

Seq Number: 3094959

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.10	0.0401	0.00771	mg/kg	07.10.19 06.42		20
Toluene	108-88-3	4.21	0.200	0.0457	mg/kg	07.10.19 03.27	D	100
Ethylbenzene	100-41-4	1.99	0.200	0.0566	mg/kg	07.10.19 03.27	D	100
m,p-Xylenes	179601-23-1	5.05	0.401	0.102	mg/kg	07.10.19 03.27	D	100
o-Xylene	95-47-6	2.88	0.200	0.0345	mg/kg	07.10.19 03.27	D	100
Total Xylenes	1330-20-7	7.93	0.200	0.0345	mg/kg	07.10.19 03.27		100
Total BTEX		15.2	0.0401	0.00771	mg/kg	07.10.19 03.27		100
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4		463	%	70-130	07.10.19 06.42	**	
1,4-Difluorobenzene	540-36-3		98	%	70-130	07.10.19 06.42		



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 53 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-004

Date Collected: 07.09.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.19 16.40

Basis: Wet Weight

Seq Number: 3094879

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	573	4.96	0.852	mg/kg	07.09.19 19.42		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.09.19 14.00

Basis: Wet Weight

Seq Number: 3094854

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	763	15.0	7.99	mg/kg	07.10.19 02.37		1
Diesel Range Organics (DRO)	C10C28DRO	2620	15.0	8.12	mg/kg	07.10.19 02.37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	125	15.0	8.12	mg/kg	07.10.19 02.37		1
Total TPH	PHC635	3510	15.0	7.99	mg/kg	07.10.19 02.37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	07.10.19 02.37	
o-Terphenyl	84-15-1	88	%	70-135	07.10.19 02.37	



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 53 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-004

Date Collected: 07.09.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 17.00

Basis: Wet Weight

Seq Number: 3094959

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.108	0.0200	0.00385	mg/kg	07.10.19 02.41		10
Toluene	108-88-3	0.637	0.0200	0.00456	mg/kg	07.10.19 02.41		10
Ethylbenzene	100-41-4	0.466	0.0200	0.00565	mg/kg	07.10.19 02.41		10
m,p-Xylenes	179601-23-1	5.84	0.0400	0.0101	mg/kg	07.10.19 02.41		10
o-Xylene	95-47-6	3.97	0.0200	0.00344	mg/kg	07.10.19 02.41		10
Total Xylenes	1330-20-7	9.81	0.0200	0.00344	mg/kg	07.10.19 02.41		10
Total BTEX		11.0	0.0200	0.00344	mg/kg	07.10.19 02.41		10
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4		260	%	70-130	07.10.19 02.41	**	
1,4-Difluorobenzene	540-36-3		92	%	70-130	07.10.19 02.41		



Tetra Tech- Midland
EOG Diamond 31 Fed Com 2H

Analytical Method: Chloride by EPA 300

Seq Number: 3094879

MB Sample Id: 7681691-1-BLK

Matrix: Solid

LCS Sample Id: 7681691-1-BKS

Prep Method: E300P

Date Prep: 07.09.19

LCSD Sample Id: 7681691-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	247	99	245	98	90-110	1	20	mg/kg	07.09.19 19:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3094879

Parent Sample Id: 630254-001

Matrix: Soil

MS Sample Id: 630254-001 S

Prep Method: E300P

Date Prep: 07.09.19

MSD Sample Id: 630254-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	213	250	463	100	455	97	90-110	2	20	mg/kg	07.09.19 19:18	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3094854

MB Sample Id: 7681678-1-BLK

Matrix: Solid

LCS Sample Id: 7681678-1-BKS

Prep Method: TX1005P

Date Prep: 07.09.19

LCSD Sample Id: 7681678-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1100	110	1120	112	70-135	2	20	mg/kg	07.09.19 17:00	
Diesel Range Organics (DRO)	<8.13	1000	1170	117	1180	118	70-135	1	20	mg/kg	07.09.19 17:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		95		92		70-135	%	07.09.19 17:00
o-Terphenyl	96		103		101		70-135	%	07.09.19 17:00

Analytical Method: TPH By SW8015 Mod

Seq Number: 3094854

Parent Sample Id: 630113-001

Matrix: Soil

MS Sample Id: 630113-001 S

Prep Method: TX1005P

Date Prep: 07.09.19

MSD Sample Id: 630113-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	9.52	997	994	99	1040	103	70-135	5	20	mg/kg	07.09.19 18:14	
Diesel Range Organics (DRO)	<8.10	997	1090	109	1170	117	70-135	7	20	mg/kg	07.09.19 18:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		96		70-135	%	07.09.19 18:14
o-Terphenyl	92		99		70-135	%	07.09.19 18:14

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Tetra Tech- Midland
EOG Diamond 31 Fed Com 2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094959

MB Sample Id: 7681660-1-BLK

Matrix: Solid

LCS Sample Id: 7681660-1-BKS

Prep Method: SW5030B

Date Prep: 07.09.19

LCSD Sample Id: 7681660-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0774	78	0.0887	89	70-130	14	35	mg/kg	07.10.19 05:13	
Toluene	<0.000453	0.0994	0.0754	76	0.0865	87	70-130	14	35	mg/kg	07.10.19 05:13	
Ethylbenzene	<0.000561	0.0994	0.0859	86	0.0964	97	70-130	12	35	mg/kg	07.10.19 05:13	
m,p-Xylenes	<0.00101	0.199	0.173	87	0.196	98	70-130	12	35	mg/kg	07.10.19 05:13	
o-Xylene	<0.000342	0.0994	0.0833	84	0.0941	94	70-130	12	35	mg/kg	07.10.19 05:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		93		97		70-130	%	07.10.19 05:13
4-Bromofluorobenzene	98		106		113		70-130	%	07.10.19 05:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094959

Parent Sample Id: 630227-001

Matrix: Soil

MS Sample Id: 630227-001 S

Prep Method: SW5030B

Date Prep: 07.09.19

MSD Sample Id: 630227-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0762	77	0.0797	80	70-130	4	35	mg/kg	07.10.19 05:57	
Toluene	<0.000453	0.0994	0.0751	76	0.0780	78	70-130	4	35	mg/kg	07.10.19 05:57	
Ethylbenzene	<0.000561	0.0994	0.0758	76	0.0814	82	70-130	7	35	mg/kg	07.10.19 05:57	
m,p-Xylenes	<0.00101	0.199	0.159	80	0.166	83	70-130	4	35	mg/kg	07.10.19 05:57	
o-Xylene	<0.000342	0.0994	0.0807	81	0.0841	84	70-130	4	35	mg/kg	07.10.19 05:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		95		70-130	%	07.10.19 05:57
4-Bromofluorobenzene	118		116		70-130	%	07.10.19 05:57

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Analysis Request of Custody Record



Tetra Tech, Inc.

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

4930 JSH

Client Name: EOG Site Manager: Mike Carmona
 Project Name: Diamond 31 Fed Com 2H
 Project Location: Lea County, New Mexico Project #: 212C-MD-01758
 Invoice to: EOG (attn: Todd Wells)
 Receiving Laboratory: Xenco Midland, TX Sampler Signature: Stephen Reyes
 Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
	Bottom Hole 50 (0-1' BEB)	7/9/2019		X				X			1 N	
	Bottom Hole 51 (0-1' BEB)	7/9/2019		X				X			1 N	
	Bottom Hole 52 (0-1' BEB)	7/9/2019		X				X			1 N	
	Bottom Hole 53 (0-1' BEB)	7/9/2019		X				X			1 N	

Relinquished by: [Signature] Date: 7-9-19 Time: []
 Received by: [Signature] Date: 7/9/19 Time: 1502

Relinquished by: [Signature] Date: [] Time: []
 Received by: [Signature] Date: [] Time: []

Relinquished by: [Signature] Date: [] Time: []
 Received by: [Signature] Date: [] Time: []

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: 25/23

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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

ORIGINAL COPY



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1644-1
Laboratory Sample Delivery Group: Pending
Client Project/Site: Diamond Soil Assessment

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

Attn: Clair Gonzales

Authorized for release by:
12/3/2021 3:28:05 PM

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



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

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

- 1
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Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Laboratory Job ID: 890-1644-1
SDG: Pending

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

Qualifiers

GC VOA

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

Job ID: 890-1644-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

**Job Narrative
890-1644-1**

Receipt

The samples were received on 11/29/2021 11:06 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-4 (2-2.5) (890-1644-18), AH-4 (3-3.5) (890-1644-19), AH-4 (4-4.5) (890-1644-20) and (890-1635-A-1-K). 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: H-4 (0-1) (890-1644-24) and (890-1636-A-1-F). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-13594 and analytical batch 880-13584 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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



Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-1

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 08:30	11/30/21 23:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	11/30/21 23:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	11/30/21 23:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	11/30/21 23:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	11/30/21 23:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	11/30/21 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/30/21 08:30	11/30/21 23:33	1
1,4-Difluorobenzene (Surr)	118		70 - 130	11/30/21 08:30	11/30/21 23:33	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	312		49.9		mg/Kg			12/01/21 20:09	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 F1 F2	49.9		mg/Kg		12/01/21 08:44	12/01/21 12:54	1
Diesel Range Organics (Over C10-C28)	312	F1	49.9		mg/Kg		12/01/21 08:44	12/01/21 12:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 12:54	1
Total TPH	312	F1	49.9		mg/Kg		12/01/21 08:44	12/01/21 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	12/01/21 08:44	12/01/21 12:54	1
o-Terphenyl	90		70 - 130	12/01/21 08:44	12/01/21 12:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	493		5.04		mg/Kg			12/02/21 21:38	1

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

Lab Sample ID: 890-1644-2

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 1 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	11/30/21 23:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	11/30/21 23:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	11/30/21 23:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/30/21 08:30	11/30/21 23:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	11/30/21 23:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/30/21 08:30	11/30/21 23:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-2

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 1 - 1.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/30/21 08:30	11/30/21 23:54	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/30/21 08:30	11/30/21 23:54	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.0		50.0		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 13:56	1
Diesel Range Organics (Over C10-C28)	86.0		50.0		mg/Kg		12/01/21 08:44	12/01/21 13:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 13:56	1
Total TPH	86.0		50.0		mg/Kg		12/01/21 08:44	12/01/21 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	12/01/21 08:44	12/01/21 13:56	1
o-Terphenyl	95		70 - 130	12/01/21 08:44	12/01/21 13:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	746		4.98		mg/Kg			12/02/21 21:49	1

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

Lab Sample ID: 890-1644-3

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 2 - 2.5

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		11/30/21 08:30	12/01/21 00:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 00:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 00:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	12/01/21 00:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 00:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	12/01/21 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	11/30/21 08:30	12/01/21 00:14	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/30/21 08:30	12/01/21 00:14	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			12/02/21 16:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-3

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 2 - 2.5

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			12/01/21 20:09	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		12/01/21 08:44	12/01/21 14:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 14:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 14:18	1
Total TPH	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	12/01/21 08:44	12/01/21 14:18	1
o-Terphenyl	95		70 - 130	12/01/21 08:44	12/01/21 14:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	764		4.95		mg/Kg			12/02/21 22:23	1

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

Lab Sample ID: 890-1644-4

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 3 - 3.5

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		11/30/21 08:30	12/01/21 00:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 00:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/30/21 08:30	12/01/21 00:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 00:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/30/21 08:30	12/01/21 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	11/30/21 08:30	12/01/21 00:34	1
1,4-Difluorobenzene (Surr)	117		70 - 130	11/30/21 08:30	12/01/21 00:34	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			12/02/21 16:29	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		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 14:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 14:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 14:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-4

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 3 - 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 14:39	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/01/21 08:44	12/01/21 14:39	1
o-Terphenyl	96		70 - 130				12/01/21 08:44	12/01/21 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	870		5.01		mg/Kg			12/02/21 22:35	1

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

Lab Sample ID: 890-1644-5

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 4 - 4.5

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		11/30/21 08:30	12/01/21 00:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 00:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 00:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/30/21 08:30	12/01/21 00:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 00:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/30/21 08:30	12/01/21 00:55	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/30/21 08:30	12/01/21 00:55	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/30/21 08:30	12/01/21 00:55	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	362		49.8		mg/Kg			12/01/21 20:09	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	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 15:00	1
Diesel Range Organics (Over C10-C28)	362		49.8		mg/Kg		12/01/21 08:44	12/01/21 15:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 15:00	1
Total TPH	362		49.8		mg/Kg		12/01/21 08:44	12/01/21 15:00	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/01/21 08:44	12/01/21 15:00	1
o-Terphenyl	104		70 - 130				12/01/21 08:44	12/01/21 15:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-5

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 4 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	378		4.97		mg/Kg			12/02/21 22:46	1

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

Lab Sample ID: 890-1644-6

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 08:30	12/01/21 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 01:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/30/21 08:30	12/01/21 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 01:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/30/21 08:30	12/01/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	217	S1+	70 - 130				11/30/21 08:30	12/01/21 01:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130				11/30/21 08:30	12/01/21 01:15	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	495		49.9		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 15:20	1
Diesel Range Organics (Over C10-C28)	495		49.9		mg/Kg		12/01/21 08:44	12/01/21 15:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 15:20	1
Total TPH	495		49.9		mg/Kg		12/01/21 08:44	12/01/21 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				12/01/21 08:44	12/01/21 15:20	1
o-Terphenyl	103		70 - 130				12/01/21 08:44	12/01/21 15:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.00		mg/Kg			12/02/21 22:58	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-7

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 1 - 1.5

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		11/30/21 08:30	12/01/21 01:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 01:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 01:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	12/01/21 01:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 01:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	12/01/21 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/30/21 08:30	12/01/21 01:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/30/21 08:30	12/01/21 01:36	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.6		49.8		mg/Kg			12/01/21 20:09	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	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 15:41	1
Diesel Range Organics (Over C10-C28)	93.6		49.8		mg/Kg		12/01/21 08:44	12/01/21 15:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 15:41	1
Total TPH	93.6		49.8		mg/Kg		12/01/21 08:44	12/01/21 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	12/01/21 08:44	12/01/21 15:41	1
o-Terphenyl	104		70 - 130	12/01/21 08:44	12/01/21 15:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		5.00		mg/Kg			12/02/21 23:09	1

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

Lab Sample ID: 890-1644-8

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 2 - 2.5

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		11/30/21 08:30	12/01/21 01:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/30/21 08:30	12/01/21 01:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/30/21 08:30	12/01/21 01:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/30/21 08:30	12/01/21 01:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/30/21 08:30	12/01/21 01:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/30/21 08:30	12/01/21 01:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-8

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 2 - 2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	11/30/21 08:30	12/01/21 01:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/30/21 08:30	12/01/21 01:56	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			12/02/21 16:29	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		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 16:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 16:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 16:02	1
Total TPH	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	12/01/21 08:44	12/01/21 16:02	1
o-Terphenyl	93		70 - 130	12/01/21 08:44	12/01/21 16:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		5.03		mg/Kg			12/02/21 23:20	1

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

Lab Sample ID: 890-1644-9

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 3 - 3.5

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		11/30/21 08:30	12/01/21 02:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/30/21 08:30	12/01/21 02:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/30/21 08:30	12/01/21 02:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/30/21 08:30	12/01/21 02:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/30/21 08:30	12/01/21 02:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/30/21 08:30	12/01/21 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/30/21 08:30	12/01/21 02:17	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/30/21 08:30	12/01/21 02:17	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			12/02/21 16:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-9

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 3 - 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.0		49.9		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 16:23	1
Diesel Range Organics (Over C10-C28)	52.0		49.9		mg/Kg		12/01/21 08:44	12/01/21 16:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 16:23	1
Total TPH	52.0		49.9		mg/Kg		12/01/21 08:44	12/01/21 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	12/01/21 08:44	12/01/21 16:23	1
o-Terphenyl	97		70 - 130	12/01/21 08:44	12/01/21 16:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	898		5.04		mg/Kg			12/02/21 23:32	1

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

Lab Sample ID: 890-1644-10

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 4 - 4.5

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		11/30/21 08:30	12/01/21 02:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 02:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 02:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	12/01/21 02:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 02:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	12/01/21 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/30/21 08:30	12/01/21 02:37	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/30/21 08:30	12/01/21 02:37	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		mg/Kg			12/02/21 16:29	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		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 16:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 16:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 16:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-10

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 4 - 4.5

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		12/01/21 08:44	12/01/21 16:44	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/01/21 08:44	12/01/21 16:44	1
o-Terphenyl	95		70 - 130				12/01/21 08:44	12/01/21 16:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		5.04		mg/Kg			12/03/21 08:16	1

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

Lab Sample ID: 890-1644-11

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 08:30	12/01/21 04:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/30/21 08:30	12/01/21 04:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/30/21 08:30	12/01/21 04:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/30/21 08:30	12/01/21 04:00	1
o-Xylene	0.00299		0.00202		mg/Kg		11/30/21 08:30	12/01/21 04:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/30/21 08:30	12/01/21 04:00	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/30/21 08:30	12/01/21 04:00	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/30/21 08:30	12/01/21 04:00	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1670		49.9		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 17:29	1
Diesel Range Organics (Over C10-C28)	1670		49.9		mg/Kg		12/01/21 08:44	12/01/21 17:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 17:29	1
Total TPH	1670		49.9		mg/Kg		12/01/21 08:44	12/01/21 17:29	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				12/01/21 08:44	12/01/21 17:29	1
o-Terphenyl	92		70 - 130				12/01/21 08:44	12/01/21 17:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
 Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
 SDG: Pending

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

Lab Sample ID: 890-1644-11

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	539		4.99		mg/Kg			12/03/21 08:27	1

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

Lab Sample ID: 890-1644-12

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 1 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 04:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 04:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 04:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/30/21 08:30	12/01/21 04:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 04:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/30/21 08:30	12/01/21 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/30/21 08:30	12/01/21 04:21	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/30/21 08:30	12/01/21 04:21	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	270		50.0		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 17:49	1
Diesel Range Organics (Over C10-C28)	270		50.0		mg/Kg		12/01/21 08:44	12/01/21 17:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 17:49	1
Total TPH	270		50.0		mg/Kg		12/01/21 08:44	12/01/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				12/01/21 08:44	12/01/21 17:49	1
o-Terphenyl	87		70 - 130				12/01/21 08:44	12/01/21 17:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	561		5.00		mg/Kg			12/03/21 08:39	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-13

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 2 - 2.5

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		11/30/21 08:30	12/01/21 04:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 04:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 04:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/30/21 08:30	12/01/21 04:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 04:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/30/21 08:30	12/01/21 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/30/21 08:30	12/01/21 04:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/30/21 08:30	12/01/21 04:41	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	269		49.9		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 18:10	1
Diesel Range Organics (Over C10-C28)	269		49.9		mg/Kg		12/01/21 08:44	12/01/21 18:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 18:10	1
Total TPH	269		49.9		mg/Kg		12/01/21 08:44	12/01/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	12/01/21 08:44	12/01/21 18:10	1
o-Terphenyl	85		70 - 130	12/01/21 08:44	12/01/21 18:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	512		4.95		mg/Kg			12/03/21 08:50	1

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

Lab Sample ID: 890-1644-14

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 3 - 3.5

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		11/30/21 08:30	12/01/21 05:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/30/21 08:30	12/01/21 05:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/30/21 08:30	12/01/21 05:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/30/21 08:30	12/01/21 05:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/30/21 08:30	12/01/21 05:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/30/21 08:30	12/01/21 05:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-14

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 3 - 3.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	11/30/21 08:30	12/01/21 05:02	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/30/21 08:30	12/01/21 05:02	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	159		50.0		mg/Kg			12/01/21 20:09	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		12/01/21 08:44	12/01/21 18:30	1
Diesel Range Organics (Over C10-C28)	159		50.0		mg/Kg		12/01/21 08:44	12/01/21 18:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 18:30	1
Total TPH	159		50.0		mg/Kg		12/01/21 08:44	12/01/21 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	12/01/21 08:44	12/01/21 18:30	1
o-Terphenyl	83		70 - 130	12/01/21 08:44	12/01/21 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	394		5.02		mg/Kg			12/03/21 09:24	1

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

Lab Sample ID: 890-1644-15

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 4 - 4.5

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		11/30/21 08:30	12/01/21 05:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 05:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 05:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	12/01/21 05:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/30/21 08:30	12/01/21 05:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/30/21 08:30	12/01/21 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/30/21 08:30	12/01/21 05:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/30/21 08:30	12/01/21 05:22	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			12/02/21 16:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
 Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
 SDG: Pending

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

Lab Sample ID: 890-1644-15

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 4 - 4.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	210		49.8		mg/Kg			12/01/21 20:09	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	72.2		49.8		mg/Kg		12/01/21 08:44	12/01/21 18:51	1
Diesel Range Organics (Over C10-C28)	138		49.8		mg/Kg		12/01/21 08:44	12/01/21 18:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 18:51	1
Total TPH	210		49.8		mg/Kg		12/01/21 08:44	12/01/21 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				12/01/21 08:44	12/01/21 18:51	1
o-Terphenyl	93		70 - 130				12/01/21 08:44	12/01/21 18:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		4.97		mg/Kg			12/03/21 09:36	1

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

Lab Sample ID: 890-1644-16

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 08:30	12/01/21 05:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 05:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 05:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/30/21 08:30	12/01/21 05:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 05:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/30/21 08:30	12/01/21 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				11/30/21 08:30	12/01/21 05:42	1
1,4-Difluorobenzene (Surr)	112		70 - 130				11/30/21 08:30	12/01/21 05:42	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			12/02/21 16:29	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		mg/Kg			12/02/21 18:34	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	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 19:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 19:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 19:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-16

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				12/01/21 08:44	12/01/21 19:11	1
o-Terphenyl	84		70 - 130				12/01/21 08:44	12/01/21 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.1		4.95		mg/Kg			12/03/21 09:47	1

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

Lab Sample ID: 890-1644-17

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 1 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 06:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 06:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 06:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/30/21 08:30	12/01/21 06:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	12/01/21 06:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/30/21 08:30	12/01/21 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/30/21 08:30	12/01/21 06:03	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/30/21 08:30	12/01/21 06:03	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			12/02/21 16:29	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		mg/Kg			12/02/21 18:34	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	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 19:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 19:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 19:32	1
Total TPH	<49.9	U	49.9		mg/Kg		12/01/21 08:44	12/01/21 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/01/21 08:44	12/01/21 19:32	1
o-Terphenyl	80		70 - 130				12/01/21 08:44	12/01/21 19:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-17

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 1 - 1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		4.99		mg/Kg			12/03/21 09:58	1

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

Lab Sample ID: 890-1644-18

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 2 - 2.5

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		12/01/21 08:45	12/01/21 23:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 23:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 23:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/21 08:45	12/01/21 23:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 23:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/21 08:45	12/01/21 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				12/01/21 08:45	12/01/21 23:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/01/21 08:45	12/01/21 23:08	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.4		50.0		mg/Kg			12/02/21 18:34	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	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 19:52	1
Diesel Range Organics (Over C10-C28)	63.4		50.0		mg/Kg		12/01/21 08:44	12/01/21 19:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 19:52	1
Total TPH	63.4		50.0		mg/Kg		12/01/21 08:44	12/01/21 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/01/21 08:44	12/01/21 19:52	1
o-Terphenyl	77		70 - 130				12/01/21 08:44	12/01/21 19:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		5.00		mg/Kg			12/03/21 10:10	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-19

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 3 - 3.5

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		12/01/21 08:45	12/01/21 23:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 23:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 23:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/01/21 08:45	12/01/21 23:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 23:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/21 08:45	12/01/21 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	12/01/21 08:45	12/01/21 23:34	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/01/21 08:45	12/01/21 23:34	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			12/02/21 16:29	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		mg/Kg			12/02/21 18:34	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	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 20:12	1
Total TPH	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	12/01/21 08:44	12/01/21 20:12	1
o-Terphenyl	93		70 - 130	12/01/21 08:44	12/01/21 20:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	966	F1	4.96		mg/Kg			12/03/21 10:21	1

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

Lab Sample ID: 890-1644-20

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 4 - 4.5

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		12/01/21 08:45	12/02/21 00:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/21 08:45	12/02/21 00:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/21 08:45	12/02/21 00:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/21 08:45	12/02/21 00:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/21 08:45	12/02/21 00:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/21 08:45	12/02/21 00:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-20

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 4 - 4.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130	12/01/21 08:45	12/02/21 00:00	1
1,4-Difluorobenzene (Surr)	117		70 - 130	12/01/21 08:45	12/02/21 00:00	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			12/02/21 16:29	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		mg/Kg			12/02/21 18:34	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	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 20:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 20:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 20:32	1
Total TPH	<49.8	U	49.8		mg/Kg		12/01/21 08:44	12/01/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	12/01/21 08:44	12/01/21 20:32	1
o-Terphenyl	75		70 - 130	12/01/21 08:44	12/01/21 20:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		5.04		mg/Kg			12/03/21 10:55	1

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

Lab Sample ID: 890-1644-21

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 09:00	11/30/21 12:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/30/21 09:00	11/30/21 12:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/30/21 09:00	11/30/21 12:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/30/21 09:00	11/30/21 12:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/30/21 09:00	11/30/21 12:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/30/21 09:00	11/30/21 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/30/21 09:00	11/30/21 12:57	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/30/21 09:00	11/30/21 12:57	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		mg/Kg			12/02/21 16:29	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-21

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.0		49.9		mg/Kg			12/02/21 18:34	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	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 16:23	1
Diesel Range Organics (Over C10-C28)	88.0		49.9		mg/Kg		12/01/21 08:20	12/01/21 16:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 16:23	1
Total TPH	88.0		49.9		mg/Kg		12/01/21 08:20	12/01/21 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	12/01/21 08:20	12/01/21 16:23	1
o-Terphenyl	76		70 - 130	12/01/21 08:20	12/01/21 16:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			12/03/21 11:07	1

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

Lab Sample ID: 890-1644-22

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 09:00	11/30/21 13:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/30/21 09:00	11/30/21 13:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/30/21 09:00	11/30/21 13:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/30/21 09:00	11/30/21 13:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/30/21 09:00	11/30/21 13:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/30/21 09:00	11/30/21 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/30/21 09:00	11/30/21 13:17	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/30/21 09:00	11/30/21 13:17	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			12/02/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.1		50.0		mg/Kg			12/02/21 18:34	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	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 16:44	1
Diesel Range Organics (Over C10-C28)	50.1		50.0		mg/Kg		12/01/21 08:20	12/01/21 16:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 16:44	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-22

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.1		50.0		mg/Kg		12/01/21 08:20	12/01/21 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				12/01/21 08:20	12/01/21 16:44	1
o-Terphenyl	75		70 - 130				12/01/21 08:20	12/01/21 16:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.47		4.95		mg/Kg			12/03/21 11:41	1

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

Lab Sample ID: 890-1644-23

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 09:00	11/30/21 13:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 09:00	11/30/21 13:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 09:00	11/30/21 13:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/30/21 09:00	11/30/21 13:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 09:00	11/30/21 13:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/30/21 09:00	11/30/21 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				11/30/21 09:00	11/30/21 13:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/30/21 09:00	11/30/21 13:37	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			12/02/21 16:29	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		mg/Kg			12/02/21 18:34	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	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 17:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 17:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 17:29	1
Total TPH	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/01/21 08:20	12/01/21 17:29	1
o-Terphenyl	72		70 - 130				12/01/21 08:20	12/01/21 17:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-23

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			12/03/21 11:52	1

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

Lab Sample ID: 890-1644-24

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 09:00	11/30/21 13:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 13:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 13:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/30/21 09:00	11/30/21 13:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 13:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/30/21 09:00	11/30/21 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				11/30/21 09:00	11/30/21 13:58	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/30/21 09:00	11/30/21 13:58	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			12/02/21 16:29	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		mg/Kg			12/02/21 18:34	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	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 17:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 17:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 17:49	1
Total TPH	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				12/01/21 08:20	12/01/21 17:49	1
o-Terphenyl	70		70 - 130				12/01/21 08:20	12/01/21 17:49	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			12/03/21 12:03	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-25

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 09:00	11/30/21 14:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/30/21 09:00	11/30/21 14:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/30/21 09:00	11/30/21 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	11/30/21 09:00	11/30/21 14:18	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/30/21 09:00	11/30/21 14:18	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			12/02/21 16:29	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		mg/Kg			12/02/21 18:34	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	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 18:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 18:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 18:10	1
Total TPH	<49.9	U	49.9		mg/Kg		12/01/21 08:20	12/01/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	12/01/21 08:20	12/01/21 18:10	1
o-Terphenyl	82		70 - 130	12/01/21 08:20	12/01/21 18:10	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			12/03/21 12:15	1

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

Lab Sample ID: 890-1644-26

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 09:00	11/30/21 14:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/30/21 09:00	11/30/21 14:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/30/21 09:00	11/30/21 14:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-26

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/30/21 09:00	11/30/21 14:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/30/21 09:00	11/30/21 14:39	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			12/02/21 16:29	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		mg/Kg			12/02/21 18:34	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	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 18:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 18:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 18:30	1
Total TPH	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	12/01/21 08:20	12/01/21 18:30	1
o-Terphenyl	74		70 - 130	12/01/21 08:20	12/01/21 18:30	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			12/03/21 12:26	1

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

Lab Sample ID: 890-1644-27

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 1

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		11/30/21 09:00	11/30/21 14:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:59	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/30/21 09:00	11/30/21 14:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/30/21 09:00	11/30/21 14:59	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/30/21 09:00	11/30/21 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/30/21 09:00	11/30/21 14:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/30/21 09:00	11/30/21 14:59	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			12/02/21 16:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
 Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
 SDG: Pending

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

Lab Sample ID: 890-1644-27

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Sample Depth: 0 - 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			12/02/21 18:34	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	<49.8	U	49.8		mg/Kg		12/01/21 08:20	12/01/21 18:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/01/21 08:20	12/01/21 18:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/01/21 08:20	12/01/21 18:51	1
Total TPH	<49.8	U	49.8		mg/Kg		12/01/21 08:20	12/01/21 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	12/01/21 08:20	12/01/21 18:51	1
o-Terphenyl	74		70 - 130	12/01/21 08:20	12/01/21 18:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03		mg/Kg			12/03/21 12:38	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-1635-A-1-I MS	Matrix Spike	143 S1+	98
890-1635-A-1-J MSD	Matrix Spike Duplicate	119	114
890-1644-1	AH-1 (0-1)	108	118
890-1644-1 MS	AH-1 (0-1)	97	110
890-1644-1 MSD	AH-1 (0-1)	102	103
890-1644-2	AH-1 (1-1.5)	110	111
890-1644-3	AH-1 (2-2.5)	114	107
890-1644-4	AH-1 (3-3.5)	128	117
890-1644-5	AH-1 (4-4.5)	96	100
890-1644-6	AH-2 (0-1)	217 S1+	92
890-1644-7	AH-2 (1-1.5)	104	103
890-1644-8	AH-2 (2-2.5)	105	100
890-1644-9	AH-2 (3-3.5)	104	111
890-1644-10	AH-2 (4-4.5)	107	103
890-1644-11	AH-3 (0-1)	97	108
890-1644-12	AH-3 (1-1.5)	118	107
890-1644-13	AH-3 (2-2.5)	98	101
890-1644-14	AH-3 (3-3.5)	126	110
890-1644-15	AH-3 (4-4.5)	96	106
890-1644-16	AH-4 (0-1)	133 S1+	112
890-1644-17	AH-4 (1-1.5)	122	107
890-1644-18	AH-4 (2-2.5)	141 S1+	96
890-1644-19	AH-4 (3-3.5)	153 S1+	110
890-1644-20	AH-4 (4-4.5)	162 S1+	117
890-1644-21	H-1 (0-1)	115	106
890-1644-21 MS	H-1 (0-1)	116	100
890-1644-21 MSD	H-1 (0-1)	124	103
890-1644-22	H-2 (0-1)	113	90
890-1644-23	H-3 (0-1)	119	96
890-1644-24	H-4 (0-1)	113	104
890-1644-25	H-5 (0-1)	121	105
890-1644-26	H-6 (0-1)	120	100
890-1644-27	H-7 (0-1)	112	96
LCS 880-13164/1-A	Lab Control Sample	101	103
LCS 880-13339/1-A	Lab Control Sample	113	100
LCS 880-13362/1-A	Lab Control Sample	105	94
LCSD 880-13164/2-A	Lab Control Sample Dup	101	97
LCSD 880-13339/2-A	Lab Control Sample Dup	108	97
LCSD 880-13362/2-A	Lab Control Sample Dup	113	93
MB 880-13164/5-A	Method Blank	116	108
MB 880-13339/5-A	Method Blank	122	107
MB 880-13362/5-A	Method Blank	85	104
MB 880-13416/5-A	Method Blank	99	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1636-A-1-G MS	Matrix Spike	73	66 S1-
890-1636-A-1-H MSD	Matrix Spike Duplicate	71	66 S1-
890-1644-1	AH-1 (0-1)	80	90
890-1644-1 MS	AH-1 (0-1)	100	97
890-1644-1 MSD	AH-1 (0-1)	87	84
890-1644-2	AH-1 (1-1.5)	87	95
890-1644-3	AH-1 (2-2.5)	85	95
890-1644-4	AH-1 (3-3.5)	86	96
890-1644-5	AH-1 (4-4.5)	91	104
890-1644-6	AH-2 (0-1)	89	103
890-1644-7	AH-2 (1-1.5)	89	104
890-1644-8	AH-2 (2-2.5)	81	93
890-1644-9	AH-2 (3-3.5)	88	97
890-1644-10	AH-2 (4-4.5)	84	95
890-1644-11	AH-3 (0-1)	83	92
890-1644-12	AH-3 (1-1.5)	81	87
890-1644-13	AH-3 (2-2.5)	78	85
890-1644-14	AH-3 (3-3.5)	75	83
890-1644-15	AH-3 (4-4.5)	85	93
890-1644-16	AH-4 (0-1)	76	84
890-1644-17	AH-4 (1-1.5)	73	80
890-1644-18	AH-4 (2-2.5)	70	77
890-1644-19	AH-4 (3-3.5)	83	93
890-1644-20	AH-4 (4-4.5)	70	75
890-1644-21	H-1 (0-1)	76	76
890-1644-22	H-2 (0-1)	74	75
890-1644-23	H-3 (0-1)	71	72
890-1644-24	H-4 (0-1)	69 S1-	70
890-1644-25	H-5 (0-1)	79	82
890-1644-26	H-6 (0-1)	74	74
890-1644-27	H-7 (0-1)	72	74
LCS 880-13590/2-A	Lab Control Sample	97	96
LCS 880-13594/2-A	Lab Control Sample	75	75
LCSD 880-13590/3-A	Lab Control Sample Dup	97	96
LCSD 880-13594/3-A	Lab Control Sample Dup	69 S1-	69 S1-
MB 880-13590/1-A	Method Blank	73	76
MB 880-13594/1-A	Method Blank	72	77

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13164/5-A
Matrix: Solid
Analysis Batch: 13425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	11/30/21 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	11/30/21 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	11/30/21 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/30/21 08:30	11/30/21 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:30	11/30/21 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/30/21 08:30	11/30/21 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/30/21 08:30	11/30/21 23:12	1
1,4-Difluorobenzene (Surr)	108		70 - 130	11/30/21 08:30	11/30/21 23:12	1

Lab Sample ID: LCS 880-13164/1-A
Matrix: Solid
Analysis Batch: 13425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09255		mg/Kg		93	70 - 130
Toluene	0.100	0.08631		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08085		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1691		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08191		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-13164/2-A
Matrix: Solid
Analysis Batch: 13425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13164

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08855		mg/Kg		89	70 - 130	4	35
Toluene	0.100	0.08180		mg/Kg		82	70 - 130	5	35
Ethylbenzene	0.100	0.07833		mg/Kg		78	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1615		mg/Kg		81	70 - 130	5	35
o-Xylene	0.100	0.08107		mg/Kg		81	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-13339/5-A
Matrix: Solid
Analysis Batch: 13426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/30/21 09:00	11/30/21 12:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 09:00	11/30/21 12:28	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: MB 880-13339/5-A
Matrix: Solid
Analysis Batch: 13426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 09:00	11/30/21 12:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/30/21 09:00	11/30/21 12:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 09:00	11/30/21 12:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/30/21 09:00	11/30/21 12:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/30/21 09:00	11/30/21 12:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/30/21 09:00	11/30/21 12:28	1

Lab Sample ID: LCS 880-13339/1-A
Matrix: Solid
Analysis Batch: 13426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09688		mg/Kg		97	70 - 130
Toluene	0.100	0.09870		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09954		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09245		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-13339/2-A
Matrix: Solid
Analysis Batch: 13426

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13339

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08994		mg/Kg		90	70 - 130	7	35
Toluene	0.100	0.09627		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.09515		mg/Kg		95	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1855		mg/Kg		93	70 - 130	6	35
o-Xylene	0.100	0.09040		mg/Kg		90	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1644-21 MSD
Matrix: Solid
Analysis Batch: 13426

Client Sample ID: H-1 (0-1)
Prep Type: Total/NA
Prep Batch: 13339

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.1081		mg/Kg					
Toluene	<0.00198	U	0.100	0.1078		mg/Kg					
Ethylbenzene	<0.00198	U	0.100	0.1118		mg/Kg					
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2154		mg/Kg					

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-21 MSD
Matrix: Solid
Analysis Batch: 13426

Client Sample ID: H-1 (0-1)
Prep Type: Total/NA
Prep Batch: 13339

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00198	U	0.100	0.1042		mg/Kg					
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	124		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								

Lab Sample ID: MB 880-13362/5-A
Matrix: Solid
Analysis Batch: 13606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 13:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 13:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 13:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/21 08:45	12/01/21 13:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/21 08:45	12/01/21 13:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/21 08:45	12/01/21 13:56	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				12/01/21 08:45	12/01/21 13:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/01/21 08:45	12/01/21 13:56	1

Lab Sample ID: LCS 880-13362/1-A
Matrix: Solid
Analysis Batch: 13606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09162		mg/Kg		92	70 - 130
Toluene	0.100	0.1023		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09786		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2177		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	105		70 - 130				
1,4-Difluorobenzene (Surr)	94		70 - 130				

Lab Sample ID: LCSD 880-13362/2-A
Matrix: Solid
Analysis Batch: 13606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13362

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09373		mg/Kg		94	70 - 130	2	35
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2247		mg/Kg		112	70 - 130	3	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	3	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: LCSD 880-13362/2-A
Matrix: Solid
Analysis Batch: 13606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13362

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-1635-A-1-I MS
Matrix: Solid
Analysis Batch: 13606

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 13362

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	0.100	0.1030		mg/Kg		103	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09992		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2191		mg/Kg		110	70 - 130
o-Xylene	<0.00200	U	0.100	0.1033		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1635-A-1-J MSD
Matrix: Solid
Analysis Batch: 13606

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 13362

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	0.08847		mg/Kg		89	70 - 130	1	35
Toluene	<0.00200	U	0.0996	0.09828		mg/Kg		99	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0996	0.09313		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2045		mg/Kg		103	70 - 130	7	35
o-Xylene	<0.00200	U	0.0996	0.09722		mg/Kg		98	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-13416/5-A
Matrix: Solid
Analysis Batch: 13425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13416

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:22	11/30/21 12:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:22	11/30/21 12:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:22	11/30/21 12:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/30/21 08:22	11/30/21 12:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/30/21 08:22	11/30/21 12:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/30/21 08:22	11/30/21 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/30/21 08:22	11/30/21 12:21	1

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: MB 880-13416/5-A
Matrix: Solid
Analysis Batch: 13425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13416

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

Prepared	Analyzed	Dil Fac
11/30/21 08:22	11/30/21 12:21	1

Lab Sample ID: 890-1644-1 MS
Matrix: Solid
Analysis Batch: 13425

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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-1644-1 MSD
Matrix: Solid
Analysis Batch: 13425

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

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1644-21 MS
Matrix: Solid
Analysis Batch: 13426

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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-13590/1-A
Matrix: Solid
Analysis Batch: 13582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13590

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 11:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 11:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 11:53	1
Total TPH	<50.0	U	50.0		mg/Kg		12/01/21 08:20	12/01/21 11:53	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	73		70 - 130	12/01/21 08:20	12/01/21 11:53	1
o-Terphenyl	76		70 - 130	12/01/21 08:20	12/01/21 11:53	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
 Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
 SDG: Pending

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

Lab Sample ID: LCS 880-13590/2-A
Matrix: Solid
Analysis Batch: 13582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1092		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130
		LCS	LCS				
Surrogate		%Recovery	Qualifier			Limits	
1-Chlorooctane		97				70 - 130	
o-Terphenyl		96				70 - 130	

Lab Sample ID: LCSD 880-13590/3-A
Matrix: Solid
Analysis Batch: 13582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13590

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1063		mg/Kg		106	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130	2	20
		LCSD	LCSD						
Surrogate		%Recovery	Qualifier			Limits			
1-Chlorooctane		97				70 - 130			
o-Terphenyl		96				70 - 130			

Lab Sample ID: 890-1636-A-1-G MS
Matrix: Solid
Analysis Batch: 13582

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 13590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1287		mg/Kg		129	70 - 130
Diesel Range Organics (Over C10-C28)	61.9		997	1154		mg/Kg		110	70 - 130
		MS	MS						
Surrogate		%Recovery	Qualifier			Limits			
1-Chlorooctane		73				70 - 130			
o-Terphenyl		66	S1-			70 - 130			

Lab Sample ID: 890-1636-A-1-H MSD
Matrix: Solid
Analysis Batch: 13582

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 13590

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	1223		mg/Kg		122	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	61.9		999	1151		mg/Kg		109	70 - 130	0	20
		MSD	MSD								
Surrogate		%Recovery	Qualifier			Limits					
1-Chlorooctane		71				70 - 130					

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1636-A-1-H MSD
Matrix: Solid
Analysis Batch: 13582

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 13590

Surrogate	MSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	66	S1-	70 - 130

Lab Sample ID: MB 880-13594/1-A
Matrix: Solid
Analysis Batch: 13584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13594

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 11:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 11:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 11:53	1
Total TPH	<50.0	U	50.0		mg/Kg		12/01/21 08:44	12/01/21 11:53	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	72		70 - 130	12/01/21 08:44	12/01/21 11:53	1
<i>o</i> -Terphenyl	77		70 - 130	12/01/21 08:44	12/01/21 11:53	1

Lab Sample ID: LCS 880-13594/2-A
Matrix: Solid
Analysis Batch: 13584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13594

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	937.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	844.8		mg/Kg		84	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	75		70 - 130
<i>o</i> -Terphenyl	75		70 - 130

Lab Sample ID: LCSD 880-13594/3-A
Matrix: Solid
Analysis Batch: 13584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13594

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	861.4		mg/Kg		86	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	784.5		mg/Kg		78	70 - 130	7	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	69	S1-	70 - 130
<i>o</i> -Terphenyl	69	S1-	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-1 MS
Matrix: Solid
Analysis Batch: 13584

Client Sample ID: AH-1 (0-1)
Prep Type: Total/NA
Prep Batch: 13594

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	997	1801	F1	mg/Kg		178	70 - 130
Diesel Range Organics (Over C10-C28)	312	F1	997	1947	F1	mg/Kg		164	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	97		70 - 130						

Lab Sample ID: 890-1644-1 MSD
Matrix: Solid
Analysis Batch: 13584

Client Sample ID: AH-1 (0-1)
Prep Type: Total/NA
Prep Batch: 13594

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	1371	F1 F2	mg/Kg		135	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	312	F1	999	1753	F1	mg/Kg		144	70 - 130	10	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	84		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-13497/1-A
Matrix: Solid
Analysis Batch: 13733

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			12/02/21 17:50	1

Lab Sample ID: LCS 880-13497/2-A
Matrix: Solid
Analysis Batch: 13733

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chloride	250	254.2		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-13497/3-A
Matrix: Solid
Analysis Batch: 13733

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Chloride	250	254.4		mg/Kg		102	90 - 110	0	20

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-8754-A-2-F MS
Matrix: Solid
Analysis Batch: 13733

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	8.06		248	265.5		mg/Kg		104	90 - 110

Lab Sample ID: 880-8754-A-2-G MSD
Matrix: Solid
Analysis Batch: 13733

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	8.06		248	265.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-13498/1-A
Matrix: Solid
Analysis Batch: 13793

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/03/21 07:08	1

Lab Sample ID: LCS 880-13498/2-A
Matrix: Solid
Analysis Batch: 13793

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.7		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-13498/3-A
Matrix: Solid
Analysis Batch: 13793

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	237.3		mg/Kg		95	90 - 110	3	20

Lab Sample ID: 890-1644-19 MS
Matrix: Solid
Analysis Batch: 13793

Client Sample ID: AH-4 (3-3.5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	966	F1	248	1165	F1	mg/Kg		80	90 - 110

Lab Sample ID: 890-1644-19 MSD
Matrix: Solid
Analysis Batch: 13793

Client Sample ID: AH-4 (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	966	F1	248	1159	F1	mg/Kg		78	90 - 110	1	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

GC VOA

Prep Batch: 13164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-1	AH-1 (0-1)	Total/NA	Solid	5035	
890-1644-2	AH-1 (1-1.5)	Total/NA	Solid	5035	
890-1644-3	AH-1 (2-2.5)	Total/NA	Solid	5035	
890-1644-4	AH-1 (3-3.5)	Total/NA	Solid	5035	
890-1644-5	AH-1 (4-4.5)	Total/NA	Solid	5035	
890-1644-6	AH-2 (0-1)	Total/NA	Solid	5035	
890-1644-7	AH-2 (1-1.5)	Total/NA	Solid	5035	
890-1644-8	AH-2 (2-2.5)	Total/NA	Solid	5035	
890-1644-9	AH-2 (3-3.5)	Total/NA	Solid	5035	
890-1644-10	AH-2 (4-4.5)	Total/NA	Solid	5035	
890-1644-11	AH-3 (0-1)	Total/NA	Solid	5035	
890-1644-12	AH-3 (1-1.5)	Total/NA	Solid	5035	
890-1644-13	AH-3 (2-2.5)	Total/NA	Solid	5035	
890-1644-14	AH-3 (3-3.5)	Total/NA	Solid	5035	
890-1644-15	AH-3 (4-4.5)	Total/NA	Solid	5035	
890-1644-16	AH-4 (0-1)	Total/NA	Solid	5035	
890-1644-17	AH-4 (1-1.5)	Total/NA	Solid	5035	
MB 880-13164/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13164/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 13339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-21	H-1 (0-1)	Total/NA	Solid	5035	
890-1644-22	H-2 (0-1)	Total/NA	Solid	5035	
890-1644-23	H-3 (0-1)	Total/NA	Solid	5035	
890-1644-24	H-4 (0-1)	Total/NA	Solid	5035	
890-1644-25	H-5 (0-1)	Total/NA	Solid	5035	
890-1644-26	H-6 (0-1)	Total/NA	Solid	5035	
890-1644-27	H-7 (0-1)	Total/NA	Solid	5035	
MB 880-13339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1644-21 MSD	H-1 (0-1)	Total/NA	Solid	5035	

Prep Batch: 13362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-18	AH-4 (2-2.5)	Total/NA	Solid	5035	
890-1644-19	AH-4 (3-3.5)	Total/NA	Solid	5035	
890-1644-20	AH-4 (4-4.5)	Total/NA	Solid	5035	
MB 880-13362/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13362/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13362/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1635-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
890-1635-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 13416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-13416/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

GC VOA

Analysis Batch: 13425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-1	AH-1 (0-1)	Total/NA	Solid	8021B	13164
890-1644-2	AH-1 (1-1.5)	Total/NA	Solid	8021B	13164
890-1644-3	AH-1 (2-2.5)	Total/NA	Solid	8021B	13164
890-1644-4	AH-1 (3-3.5)	Total/NA	Solid	8021B	13164
890-1644-5	AH-1 (4-4.5)	Total/NA	Solid	8021B	13164
890-1644-6	AH-2 (0-1)	Total/NA	Solid	8021B	13164
890-1644-7	AH-2 (1-1.5)	Total/NA	Solid	8021B	13164
890-1644-8	AH-2 (2-2.5)	Total/NA	Solid	8021B	13164
890-1644-9	AH-2 (3-3.5)	Total/NA	Solid	8021B	13164
890-1644-10	AH-2 (4-4.5)	Total/NA	Solid	8021B	13164
890-1644-11	AH-3 (0-1)	Total/NA	Solid	8021B	13164
890-1644-12	AH-3 (1-1.5)	Total/NA	Solid	8021B	13164
890-1644-13	AH-3 (2-2.5)	Total/NA	Solid	8021B	13164
890-1644-14	AH-3 (3-3.5)	Total/NA	Solid	8021B	13164
890-1644-15	AH-3 (4-4.5)	Total/NA	Solid	8021B	13164
890-1644-16	AH-4 (0-1)	Total/NA	Solid	8021B	13164
890-1644-17	AH-4 (1-1.5)	Total/NA	Solid	8021B	13164
MB 880-13164/5-A	Method Blank	Total/NA	Solid	8021B	13164
MB 880-13416/5-A	Method Blank	Total/NA	Solid	8021B	13416
LCS 880-13164/1-A	Lab Control Sample	Total/NA	Solid	8021B	13164
LCSD 880-13164/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13164
890-1644-1 MS	AH-1 (0-1)	Total/NA	Solid	8021B	
890-1644-1 MSD	AH-1 (0-1)	Total/NA	Solid	8021B	

Analysis Batch: 13426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-21	H-1 (0-1)	Total/NA	Solid	8021B	13339
890-1644-22	H-2 (0-1)	Total/NA	Solid	8021B	13339
890-1644-23	H-3 (0-1)	Total/NA	Solid	8021B	13339
890-1644-24	H-4 (0-1)	Total/NA	Solid	8021B	13339
890-1644-25	H-5 (0-1)	Total/NA	Solid	8021B	13339
890-1644-26	H-6 (0-1)	Total/NA	Solid	8021B	13339
890-1644-27	H-7 (0-1)	Total/NA	Solid	8021B	13339
MB 880-13339/5-A	Method Blank	Total/NA	Solid	8021B	13339
LCS 880-13339/1-A	Lab Control Sample	Total/NA	Solid	8021B	13339
LCSD 880-13339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13339
890-1644-21 MS	H-1 (0-1)	Total/NA	Solid	8021B	
890-1644-21 MSD	H-1 (0-1)	Total/NA	Solid	8021B	13339

Analysis Batch: 13606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-18	AH-4 (2-2.5)	Total/NA	Solid	8021B	13362
890-1644-19	AH-4 (3-3.5)	Total/NA	Solid	8021B	13362
890-1644-20	AH-4 (4-4.5)	Total/NA	Solid	8021B	13362
MB 880-13362/5-A	Method Blank	Total/NA	Solid	8021B	13362
LCS 880-13362/1-A	Lab Control Sample	Total/NA	Solid	8021B	13362
LCSD 880-13362/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13362
890-1635-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	13362
890-1635-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13362

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

GC VOA

Analysis Batch: 13794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-1	AH-1 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-2	AH-1 (1-1.5)	Total/NA	Solid	Total BTEX	
890-1644-3	AH-1 (2-2.5)	Total/NA	Solid	Total BTEX	
890-1644-4	AH-1 (3-3.5)	Total/NA	Solid	Total BTEX	
890-1644-5	AH-1 (4-4.5)	Total/NA	Solid	Total BTEX	
890-1644-6	AH-2 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-7	AH-2 (1-1.5)	Total/NA	Solid	Total BTEX	
890-1644-8	AH-2 (2-2.5)	Total/NA	Solid	Total BTEX	
890-1644-9	AH-2 (3-3.5)	Total/NA	Solid	Total BTEX	
890-1644-10	AH-2 (4-4.5)	Total/NA	Solid	Total BTEX	
890-1644-11	AH-3 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-12	AH-3 (1-1.5)	Total/NA	Solid	Total BTEX	
890-1644-13	AH-3 (2-2.5)	Total/NA	Solid	Total BTEX	
890-1644-14	AH-3 (3-3.5)	Total/NA	Solid	Total BTEX	
890-1644-15	AH-3 (4-4.5)	Total/NA	Solid	Total BTEX	
890-1644-16	AH-4 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-17	AH-4 (1-1.5)	Total/NA	Solid	Total BTEX	
890-1644-18	AH-4 (2-2.5)	Total/NA	Solid	Total BTEX	
890-1644-19	AH-4 (3-3.5)	Total/NA	Solid	Total BTEX	
890-1644-20	AH-4 (4-4.5)	Total/NA	Solid	Total BTEX	
890-1644-21	H-1 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-22	H-2 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-23	H-3 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-24	H-4 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-25	H-5 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-26	H-6 (0-1)	Total/NA	Solid	Total BTEX	
890-1644-27	H-7 (0-1)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 13582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-21	H-1 (0-1)	Total/NA	Solid	8015B NM	13590
890-1644-22	H-2 (0-1)	Total/NA	Solid	8015B NM	13590
890-1644-23	H-3 (0-1)	Total/NA	Solid	8015B NM	13590
890-1644-24	H-4 (0-1)	Total/NA	Solid	8015B NM	13590
890-1644-25	H-5 (0-1)	Total/NA	Solid	8015B NM	13590
890-1644-26	H-6 (0-1)	Total/NA	Solid	8015B NM	13590
890-1644-27	H-7 (0-1)	Total/NA	Solid	8015B NM	13590
MB 880-13590/1-A	Method Blank	Total/NA	Solid	8015B NM	13590
LCS 880-13590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13590
LCSD 880-13590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13590
890-1636-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	13590
890-1636-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13590

Analysis Batch: 13584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-1	AH-1 (0-1)	Total/NA	Solid	8015B NM	13594
890-1644-2	AH-1 (1-1.5)	Total/NA	Solid	8015B NM	13594
890-1644-3	AH-1 (2-2.5)	Total/NA	Solid	8015B NM	13594
890-1644-4	AH-1 (3-3.5)	Total/NA	Solid	8015B NM	13594

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

GC Semi VOA (Continued)

Analysis Batch: 13584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-5	AH-1 (4-4.5)	Total/NA	Solid	8015B NM	13594
890-1644-6	AH-2 (0-1)	Total/NA	Solid	8015B NM	13594
890-1644-7	AH-2 (1-1.5)	Total/NA	Solid	8015B NM	13594
890-1644-8	AH-2 (2-2.5)	Total/NA	Solid	8015B NM	13594
890-1644-9	AH-2 (3-3.5)	Total/NA	Solid	8015B NM	13594
890-1644-10	AH-2 (4-4.5)	Total/NA	Solid	8015B NM	13594
890-1644-11	AH-3 (0-1)	Total/NA	Solid	8015B NM	13594
890-1644-12	AH-3 (1-1.5)	Total/NA	Solid	8015B NM	13594
890-1644-13	AH-3 (2-2.5)	Total/NA	Solid	8015B NM	13594
890-1644-14	AH-3 (3-3.5)	Total/NA	Solid	8015B NM	13594
890-1644-15	AH-3 (4-4.5)	Total/NA	Solid	8015B NM	13594
890-1644-16	AH-4 (0-1)	Total/NA	Solid	8015B NM	13594
890-1644-17	AH-4 (1-1.5)	Total/NA	Solid	8015B NM	13594
890-1644-18	AH-4 (2-2.5)	Total/NA	Solid	8015B NM	13594
890-1644-19	AH-4 (3-3.5)	Total/NA	Solid	8015B NM	13594
890-1644-20	AH-4 (4-4.5)	Total/NA	Solid	8015B NM	13594
MB 880-13594/1-A	Method Blank	Total/NA	Solid	8015B NM	13594
LCS 880-13594/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13594
LCSD 880-13594/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13594
890-1644-1 MS	AH-1 (0-1)	Total/NA	Solid	8015B NM	13594
890-1644-1 MSD	AH-1 (0-1)	Total/NA	Solid	8015B NM	13594

Prep Batch: 13590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-21	H-1 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-22	H-2 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-23	H-3 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-24	H-4 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-25	H-5 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-26	H-6 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-27	H-7 (0-1)	Total/NA	Solid	8015NM Prep	
MB 880-13590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1636-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1636-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 13594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-1	AH-1 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-2	AH-1 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-1644-3	AH-1 (2-2.5)	Total/NA	Solid	8015NM Prep	
890-1644-4	AH-1 (3-3.5)	Total/NA	Solid	8015NM Prep	
890-1644-5	AH-1 (4-4.5)	Total/NA	Solid	8015NM Prep	
890-1644-6	AH-2 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-7	AH-2 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-1644-8	AH-2 (2-2.5)	Total/NA	Solid	8015NM Prep	
890-1644-9	AH-2 (3-3.5)	Total/NA	Solid	8015NM Prep	
890-1644-10	AH-2 (4-4.5)	Total/NA	Solid	8015NM Prep	
890-1644-11	AH-3 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-12	AH-3 (1-1.5)	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

GC Semi VOA (Continued)

Prep Batch: 13594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-13	AH-3 (2-2.5)	Total/NA	Solid	8015NM Prep	
890-1644-14	AH-3 (3-3.5)	Total/NA	Solid	8015NM Prep	
890-1644-15	AH-3 (4-4.5)	Total/NA	Solid	8015NM Prep	
890-1644-16	AH-4 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-17	AH-4 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-1644-18	AH-4 (2-2.5)	Total/NA	Solid	8015NM Prep	
890-1644-19	AH-4 (3-3.5)	Total/NA	Solid	8015NM Prep	
890-1644-20	AH-4 (4-4.5)	Total/NA	Solid	8015NM Prep	
MB 880-13594/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13594/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13594/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1644-1 MS	AH-1 (0-1)	Total/NA	Solid	8015NM Prep	
890-1644-1 MSD	AH-1 (0-1)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-1	AH-1 (0-1)	Total/NA	Solid	8015 NM	
890-1644-2	AH-1 (1-1.5)	Total/NA	Solid	8015 NM	
890-1644-3	AH-1 (2-2.5)	Total/NA	Solid	8015 NM	
890-1644-4	AH-1 (3-3.5)	Total/NA	Solid	8015 NM	
890-1644-5	AH-1 (4-4.5)	Total/NA	Solid	8015 NM	
890-1644-6	AH-2 (0-1)	Total/NA	Solid	8015 NM	
890-1644-7	AH-2 (1-1.5)	Total/NA	Solid	8015 NM	
890-1644-8	AH-2 (2-2.5)	Total/NA	Solid	8015 NM	
890-1644-9	AH-2 (3-3.5)	Total/NA	Solid	8015 NM	
890-1644-10	AH-2 (4-4.5)	Total/NA	Solid	8015 NM	
890-1644-11	AH-3 (0-1)	Total/NA	Solid	8015 NM	
890-1644-12	AH-3 (1-1.5)	Total/NA	Solid	8015 NM	
890-1644-13	AH-3 (2-2.5)	Total/NA	Solid	8015 NM	
890-1644-14	AH-3 (3-3.5)	Total/NA	Solid	8015 NM	
890-1644-15	AH-3 (4-4.5)	Total/NA	Solid	8015 NM	
890-1644-16	AH-4 (0-1)	Total/NA	Solid	8015 NM	
890-1644-17	AH-4 (1-1.5)	Total/NA	Solid	8015 NM	
890-1644-18	AH-4 (2-2.5)	Total/NA	Solid	8015 NM	
890-1644-19	AH-4 (3-3.5)	Total/NA	Solid	8015 NM	
890-1644-20	AH-4 (4-4.5)	Total/NA	Solid	8015 NM	
890-1644-21	H-1 (0-1)	Total/NA	Solid	8015 NM	
890-1644-22	H-2 (0-1)	Total/NA	Solid	8015 NM	
890-1644-23	H-3 (0-1)	Total/NA	Solid	8015 NM	
890-1644-24	H-4 (0-1)	Total/NA	Solid	8015 NM	
890-1644-25	H-5 (0-1)	Total/NA	Solid	8015 NM	
890-1644-26	H-6 (0-1)	Total/NA	Solid	8015 NM	
890-1644-27	H-7 (0-1)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 13497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-1	AH-1 (0-1)	Soluble	Solid	DI Leach	
890-1644-2	AH-1 (1-1.5)	Soluble	Solid	DI Leach	
890-1644-3	AH-1 (2-2.5)	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

HPLC/IC (Continued)

Leach Batch: 13497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-4	AH-1 (3-3.5)	Soluble	Solid	DI Leach	
890-1644-5	AH-1 (4-4.5)	Soluble	Solid	DI Leach	
890-1644-6	AH-2 (0-1)	Soluble	Solid	DI Leach	
890-1644-7	AH-2 (1-1.5)	Soluble	Solid	DI Leach	
890-1644-8	AH-2 (2-2.5)	Soluble	Solid	DI Leach	
890-1644-9	AH-2 (3-3.5)	Soluble	Solid	DI Leach	
MB 880-13497/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13497/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13497/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8754-A-2-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8754-A-2-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 13498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-10	AH-2 (4-4.5)	Soluble	Solid	DI Leach	
890-1644-11	AH-3 (0-1)	Soluble	Solid	DI Leach	
890-1644-12	AH-3 (1-1.5)	Soluble	Solid	DI Leach	
890-1644-13	AH-3 (2-2.5)	Soluble	Solid	DI Leach	
890-1644-14	AH-3 (3-3.5)	Soluble	Solid	DI Leach	
890-1644-15	AH-3 (4-4.5)	Soluble	Solid	DI Leach	
890-1644-16	AH-4 (0-1)	Soluble	Solid	DI Leach	
890-1644-17	AH-4 (1-1.5)	Soluble	Solid	DI Leach	
890-1644-18	AH-4 (2-2.5)	Soluble	Solid	DI Leach	
890-1644-19	AH-4 (3-3.5)	Soluble	Solid	DI Leach	
890-1644-20	AH-4 (4-4.5)	Soluble	Solid	DI Leach	
890-1644-21	H-1 (0-1)	Soluble	Solid	DI Leach	
890-1644-22	H-2 (0-1)	Soluble	Solid	DI Leach	
890-1644-23	H-3 (0-1)	Soluble	Solid	DI Leach	
890-1644-24	H-4 (0-1)	Soluble	Solid	DI Leach	
890-1644-25	H-5 (0-1)	Soluble	Solid	DI Leach	
890-1644-26	H-6 (0-1)	Soluble	Solid	DI Leach	
890-1644-27	H-7 (0-1)	Soluble	Solid	DI Leach	
MB 880-13498/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13498/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13498/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1644-19 MS	AH-4 (3-3.5)	Soluble	Solid	DI Leach	
890-1644-19 MSD	AH-4 (3-3.5)	Soluble	Solid	DI Leach	

Analysis Batch: 13733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-1	AH-1 (0-1)	Soluble	Solid	300.0	13497
890-1644-2	AH-1 (1-1.5)	Soluble	Solid	300.0	13497
890-1644-3	AH-1 (2-2.5)	Soluble	Solid	300.0	13497
890-1644-4	AH-1 (3-3.5)	Soluble	Solid	300.0	13497
890-1644-5	AH-1 (4-4.5)	Soluble	Solid	300.0	13497
890-1644-6	AH-2 (0-1)	Soluble	Solid	300.0	13497
890-1644-7	AH-2 (1-1.5)	Soluble	Solid	300.0	13497
890-1644-8	AH-2 (2-2.5)	Soluble	Solid	300.0	13497
890-1644-9	AH-2 (3-3.5)	Soluble	Solid	300.0	13497
MB 880-13497/1-A	Method Blank	Soluble	Solid	300.0	13497
LCS 880-13497/2-A	Lab Control Sample	Soluble	Solid	300.0	13497

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

HPLC/IC (Continued)

Analysis Batch: 13733 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-13497/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13497
880-8754-A-2-F MS	Matrix Spike	Soluble	Solid	300.0	13497
880-8754-A-2-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	13497

Analysis Batch: 13793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1644-10	AH-2 (4-4.5)	Soluble	Solid	300.0	13498
890-1644-11	AH-3 (0-1)	Soluble	Solid	300.0	13498
890-1644-12	AH-3 (1-1.5)	Soluble	Solid	300.0	13498
890-1644-13	AH-3 (2-2.5)	Soluble	Solid	300.0	13498
890-1644-14	AH-3 (3-3.5)	Soluble	Solid	300.0	13498
890-1644-15	AH-3 (4-4.5)	Soluble	Solid	300.0	13498
890-1644-16	AH-4 (0-1)	Soluble	Solid	300.0	13498
890-1644-17	AH-4 (1-1.5)	Soluble	Solid	300.0	13498
890-1644-18	AH-4 (2-2.5)	Soluble	Solid	300.0	13498
890-1644-19	AH-4 (3-3.5)	Soluble	Solid	300.0	13498
890-1644-20	AH-4 (4-4.5)	Soluble	Solid	300.0	13498
890-1644-21	H-1 (0-1)	Soluble	Solid	300.0	13498
890-1644-22	H-2 (0-1)	Soluble	Solid	300.0	13498
890-1644-23	H-3 (0-1)	Soluble	Solid	300.0	13498
890-1644-24	H-4 (0-1)	Soluble	Solid	300.0	13498
890-1644-25	H-5 (0-1)	Soluble	Solid	300.0	13498
890-1644-26	H-6 (0-1)	Soluble	Solid	300.0	13498
890-1644-27	H-7 (0-1)	Soluble	Solid	300.0	13498
MB 880-13498/1-A	Method Blank	Soluble	Solid	300.0	13498
LCS 880-13498/2-A	Lab Control Sample	Soluble	Solid	300.0	13498
LCSD 880-13498/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13498
890-1644-19 MS	AH-4 (3-3.5)	Soluble	Solid	300.0	13498
890-1644-19 MSD	AH-4 (3-3.5)	Soluble	Solid	300.0	13498

Lab Chronicle

Client: Tetra Tech, Inc.
 Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
 SDG: Pending

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

Lab Sample ID: 890-1644-1

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	11/30/21 23:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 12:54	AJ	XEN MID
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 21:38	CH	XEN MID

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

Lab Sample ID: 890-1644-2

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	11/30/21 23:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 13:56	AJ	XEN MID
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 21:49	CH	XEN MID

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

Lab Sample ID: 890-1644-3

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 00:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 22:23	CH	XEN MID

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

Lab Sample ID: 890-1644-4

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 00:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-4

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 22:35	CH	XEN MID

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

Lab Sample ID: 890-1644-5

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 00:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 22:46	CH	XEN MID

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

Lab Sample ID: 890-1644-6

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 01:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 15:20	AJ	XEN MID
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 22:58	CH	XEN MID

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

Lab Sample ID: 890-1644-7

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 01:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 15:41	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-7

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 23:09	CH	XEN MID

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

Lab Sample ID: 890-1644-8

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 01:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 23:20	CH	XEN MID

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

Lab Sample ID: 890-1644-9

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 02:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 16:23	AJ	XEN MID
Soluble	Leach	DI Leach			13497	11/30/21 12:56	CA	XEN MID
Soluble	Analysis	300.0		1	13733	12/02/21 23:32	CH	XEN MID

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

Lab Sample ID: 890-1644-10

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 02:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 16:44	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 08:16	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-11

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 04:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 17:29	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 08:27	CH	XEN MID

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

Lab Sample ID: 890-1644-12

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 04:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 08:39	CH	XEN MID

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

Lab Sample ID: 890-1644-13

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 04:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 18:10	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 08:50	CH	XEN MID

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

Lab Sample ID: 890-1644-14

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 05:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-14

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 09:24	CH	XEN MID

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

Lab Sample ID: 890-1644-15

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 05:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 09:36	CH	XEN MID

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

Lab Sample ID: 890-1644-16

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 05:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 09:47	CH	XEN MID

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

Lab Sample ID: 890-1644-17

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13164	11/30/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	13425	12/01/21 06:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 19:32	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-17

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 09:58	CH	XEN MID

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

Lab Sample ID: 890-1644-18

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13362	12/01/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	13606	12/01/21 23:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 10:10	CH	XEN MID

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

Lab Sample ID: 890-1644-19

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13362	12/01/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	13606	12/01/21 23:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 10:21	CH	XEN MID

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

Lab Sample ID: 890-1644-20

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13362	12/01/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	13606	12/02/21 00:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13594	12/01/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13584	12/01/21 20:32	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 10:55	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-21

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13339	11/30/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	13426	11/30/21 12:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13590	12/01/21 08:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13582	12/01/21 16:23	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 11:07	CH	XEN MID

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

Lab Sample ID: 890-1644-22

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13339	11/30/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	13426	11/30/21 13:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13590	12/01/21 08:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13582	12/01/21 16:44	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 11:41	CH	XEN MID

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

Lab Sample ID: 890-1644-23

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13339	11/30/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	13426	11/30/21 13:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13590	12/01/21 08:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13582	12/01/21 17:29	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 11:52	CH	XEN MID

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

Lab Sample ID: 890-1644-24

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13339	11/30/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	13426	11/30/21 13:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-24

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13590	12/01/21 08:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13582	12/01/21 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 12:03	CH	XEN MID

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

Lab Sample ID: 890-1644-25

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13339	11/30/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	13426	11/30/21 14:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13590	12/01/21 08:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13582	12/01/21 18:10	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 12:15	CH	XEN MID

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

Lab Sample ID: 890-1644-26

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13339	11/30/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	13426	11/30/21 14:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13590	12/01/21 08:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13582	12/01/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 12:26	CH	XEN MID

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

Lab Sample ID: 890-1644-27

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13339	11/30/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	13426	11/30/21 14:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	13794	12/02/21 16:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	13711	12/02/21 18:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13590	12/01/21 08:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13582	12/01/21 18:51	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Lab Sample ID: 890-1644-27

Date Collected: 11/24/21 00:00

Matrix: Solid

Date Received: 11/29/21 11:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			13498	11/30/21 12:57	CA	XEN MID
Soluble	Analysis	300.0		1	13793	12/03/21 12:38	CH	XEN MID

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

Laboratory: Eurofins Xenco, Midland

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

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

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

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Diamond Soil Assessment

Job ID: 890-1644-1
SDG: Pending

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1644-1	AH-1 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-2	AH-1 (1-1.5)	Solid	11/24/21 00:00	11/29/21 11:06	1 - 1.5
890-1644-3	AH-1 (2-2.5)	Solid	11/24/21 00:00	11/29/21 11:06	2 - 2.5
890-1644-4	AH-1 (3-3.5)	Solid	11/24/21 00:00	11/29/21 11:06	3 - 3.5
890-1644-5	AH-1 (4-4.5)	Solid	11/24/21 00:00	11/29/21 11:06	4 - 4.5
890-1644-6	AH-2 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-7	AH-2 (1-1.5)	Solid	11/24/21 00:00	11/29/21 11:06	1 - 1.5
890-1644-8	AH-2 (2-2.5)	Solid	11/24/21 00:00	11/29/21 11:06	2 - 2.5
890-1644-9	AH-2 (3-3.5)	Solid	11/24/21 00:00	11/29/21 11:06	3 - 3.5
890-1644-10	AH-2 (4-4.5)	Solid	11/24/21 00:00	11/29/21 11:06	4 - 4.5
890-1644-11	AH-3 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-12	AH-3 (1-1.5)	Solid	11/24/21 00:00	11/29/21 11:06	1 - 1.5
890-1644-13	AH-3 (2-2.5)	Solid	11/24/21 00:00	11/29/21 11:06	2 - 2.5
890-1644-14	AH-3 (3-3.5)	Solid	11/24/21 00:00	11/29/21 11:06	3 - 3.5
890-1644-15	AH-3 (4-4.5)	Solid	11/24/21 00:00	11/29/21 11:06	4 - 4.5
890-1644-16	AH-4 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-17	AH-4 (1-1.5)	Solid	11/24/21 00:00	11/29/21 11:06	1 - 1.5
890-1644-18	AH-4 (2-2.5)	Solid	11/24/21 00:00	11/29/21 11:06	2 - 2.5
890-1644-19	AH-4 (3-3.5)	Solid	11/24/21 00:00	11/29/21 11:06	3 - 3.5
890-1644-20	AH-4 (4-4.5)	Solid	11/24/21 00:00	11/29/21 11:06	4 - 4.5
890-1644-21	H-1 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-22	H-2 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-23	H-3 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-24	H-4 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-25	H-5 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-26	H-6 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1
890-1644-27	H-7 (0-1)	Solid	11/24/21 00:00	11/29/21 11:06	0 - 1

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

890-1644 Chain of Custody



Page 1 of 3

Client Name: EOG Resources Site Manager: Brittany Long
 Project Name: Diamond Soil Assessment
 Project Location: Lea County Project #: Pending
 (county, state)
 Invoice to: Todd Wells
 Receiving Laboratory: Eurofins Xenco Sampler Signature: Ezequiel Moreno
 Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
	DATE	TIME	YEAR: 2020	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			None
	AH-1 (0-1')		11/24/2021			X	X	X	X	X	X		
	AH-1 (1-1.5')		11/24/2021			X	X	X	X	X	X		
	AH-1 (2-2.5')		11/24/2021			X	X	X	X	X	X		
	AH-1 (3-3.5')		11/24/2021			X	X	X	X	X	X		
	AH-1 (4-4.5')		11/24/2021			X	X	X	X	X	X		
	AH-2 (0-1')		11/24/2021			X	X	X	X	X	X		
	AH-2 (1-1.5')		11/24/2021			X	X	X	X	X	X		
	AH-2 (2-2.5')		11/24/2021			X	X	X	X	X	X		
	AH-2 (3-3.5')		11/24/2021			X	X	X	X	X	X		
	AH-2 (4-4.5')		11/24/2021			X	X	X	X	X	X		

Relinquished by: *[Signature]* Date: 11/29/21 Time: 1106
 Received by: *[Signature]* Date: 11-29-21 Time: 1104
 Relinquished by: Date: Time:
 Received by: Date: Time:

ORIGINAL COPY

ANALYSIS REQUEST
 (Circle or Specify Method No.)

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

LAB USE ONLY
 REMARKS:
 STANDARD
 RUSH: Same Day 24 hr 48 hr 72 hr
 Rush Charges Authorized
 Special Report Limits or TRRP Report

Sample Temperature: 1.8
 Relinquished by: Date: Time:
 Received by: Date: Time:

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

501 W. VAIL STREET, 316 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3936

Client Name: EOG Resources
Site Manager: Brittany Long

Project Name: Diamond Soil Assessment

Project Location: Lea County

Invoice to: Todd Wells

Receiving Laboratory: Eurofins Xenco

Comments:

Project #: Pending
Sampler Signature: Ezequiel Moreno

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
	H-1 (0-1')	11/24/2021		X		X		X					
	H-2 (0-1')	11/24/2021		X		X		X					
	H-3 (0-1')	11/24/2021		X		X		X					
	H-4 (0-1')	11/24/2021		X		X		X					
	H-5 (0-1')	11/24/2021		X		X		X					
	H-6 (0-1')	11/24/2021		X		X		X					
	H-7 (0-1')	11/24/2021		X		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	

Relinquished by: *[Signature]* Date: 11/29/21 Time: 1106

Received by: *[Signature]* Date: 11-29-21 Time: 1106

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

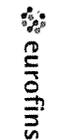
Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY



Chain of Custody Record



Environment Testing America

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Client Information (Sub Contract Lab)
Client Contact: Kramer, Jessica
Shipping/Receiving: Jessica.kramer@eurofins.com
Company: Eurofins Xenco
Address: 1211 W Florida Ave
City: Midland
State Zip: TX, 79701
Phone: 432-704-5440(Tel)
Email: [blank]
Project #: 88000013
Site: SSOV#

Sampler: Lab PM
Phone: Kramer, Jessica
E-Mail: Jessica.kramer@eurofins.com
Accreditations Required (See note): NELAP - Louisiana NELAP - Texas
Carrier Tracking No(s):
State of Origin: New Mexico
Page: 1 of 3
Job #: 890-1644-1

Due Date Requested: 12/22/2021
TAT Requested (days):
Analysis Requested:
COC No.: 890-526-1
Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amnitor
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
Z - other (specify)

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, BI=issue, AA=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	8021B/6035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note
AH-1 (0-1) (890-1644-1)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	
AH-1 (1-1) (890-1644-2)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	
AH-1 (2-2) (890-1644-3)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	
AH-1 (3-3) (890-1644-4)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	
AH-1 (4-4) (890-1644-5)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	
AH-2 (0-1) (890-1644-6)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	
AH-2 (1-1) (890-1644-7)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	
AH-2 (2-2) (890-1644-8)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	
AH-2 (3-3) (890-1644-9)	11/24/21	Mountain	Solid	Solid	X	X	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank 2
Special Instructions/QC Requirements

Empty Kit Relinquished by: [blank] Date: [blank]
Relinquished by: [Signature] Date/Time: 11/29/21 Company: [blank]
Relinquished by: [Signature] Date/Time: [blank] Company: [blank]
Relinquished by: [Signature] Date/Time: [blank] Company: [blank]

Custody Seals Intact: Δ Yes Δ No
Custody Seal No
Cooler Temperature(s) °C and Other Remarks: 2/22

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1 Eurofins Xenco, Carlsbad

Chain of Custody Record



Environment Testing America

1089 N Canal St
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving	Phone	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-5262
Company: Eurofins Xenco	E-Mail: jessica.kramer@eurofinsnet.com	Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas	State of Origin: New Mexico	Page: Page 2 of 3
Address: 1211 W Florida Ave	Due Date Requested: 12/2/2021			Job #: 890-1644-1
City: Midland	TAT Requested (days):	Analysis Requested		
State Zip: TX, 79701		300_ORGFM_28D/DI_LEACH Chloride		
Phone: 432-704-6440(Tel)	PO #:	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO		
Email:	WO #:	8021B/6036FP_Calc BTEX		
Project Name: Diamond Soil Assessment	Project #: 88000013	Total_BTEX_GCV		
Site:	SSOV#:	8015MOD_Calc		

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Other, B=Bitumen, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note
AH-2 (4-4 5) (890-1644-10)	11/24/21		Solid	Solid		X	X	1	
AH-3 (0-1) (890-1644-11)	11/24/21		Solid	Solid		X	X	1	
AH-3 (1-1 5) (890-1644-12)	11/24/21		Solid	Solid		X	X	1	
AH-3 (2-2 5) (890-1644-13)	11/24/21		Solid	Solid		X	X	1	
AH-3 (3-3 5) (890-1644-14)	11/24/21		Solid	Solid		X	X	1	
AH-3 (4-4 5) (890-1644-15)	11/24/21		Solid	Solid		X	X	1	
AH-4 (0-1) (890-1644-16)	11/24/21		Solid	Solid		X	X	1	
AH-4 (1-1 5) (890-1644-17)	11/24/21		Solid	Solid		X	X	1	
AH-4 (2-2 5) (890-1644-18)	11/24/21		Solid	Solid		X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our 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/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I II III IV Other (Specify) Primary Deliverable Rank 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by

Relinquished by: <i>Due Cof</i>	Date/Time: 11-29-21	Company:
Relinquished by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:

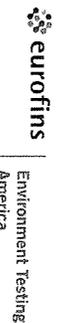
Custody Seals Intact: Δ Yes Δ NO

Custody Seal No	Cooler Temperature(s) °C and Other Remarks
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1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving		Phone	Kramer Jessica		890-526 3
Company: Eurofins Xenco		E-Mail	jessica.kramer@eurofinsnet.com	State of Origin	Page 3 of 3
Address: 1211 W. Florida Ave		Accreditations Required (See note)	NE LAP - Louisiana, NE LAP - Texas	New Mexico	Job #:
City: Midland		Due Date Requested			890-1644-1
State, Zip: TX, 79701		TAT Requested (days):			Preservation Codes
Phone: 432-704-5440(Tel)					A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amthlor 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 Z other (specify)
Project Name: Diamond Soil Assessment		Project #			
Site		SSOW#			
Sample Identification - Client ID (Lab ID)					
AH-4 (3-3 5) (890-1644-19)	11/24/21	Mountain	Solid	X	1
AH-4 (4-4 5) (890-1644-20)	11/24/21	Mountain	Solid	X	1
H-1 (0-1) (890-1644-21)	11/24/21	Mountain	Solid	X	1
H-2 (0-1) (890-1644-22)	11/24/21	Mountain	Solid	X	1
H-3 (0-1) (890-1644-23)	11/24/21	Mountain	Solid	X	1
H-4 (0-1) (890-1644-24)	11/24/21	Mountain	Solid	X	1
H-5 (0-1) (890-1644-25)	11/24/21	Mountain	Solid	X	1
H-6 (0-1) (890-1644-26)	11/24/21	Mountain	Solid	X	1
H-7 (0-1) (890-1644-27)	11/24/21	Mountain	Solid	X	1
<p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our 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/leach/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p>					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)					
Primary Deliverable Rank 2					
Empty Kit Relinquished by			Date	Time	Method of Shipment:
Relinquished by: <i>Joe Cady</i>			Date/Time: 11.29.21	Company	
Relinquished by:			Date/Time:	Company	
Relinquished by:			Date/Time:	Company	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.		
Cooler Temperature(s) °C and Other Remarks					
<p><input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements</p>					

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1644-1

SDG Number: Pending

Login Number: 1644

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1644-1

SDG Number: Pending

Login Number: 1644

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/30/21 11:49 AM

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

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

April 13, 2022

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 04/12/22 15:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 1 (5') (H221507-01)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.0 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 2 (5') (H221507-02)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 3 (5') (H221507-03)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.3 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 4 (5') (H221507-04)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	34.4	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.9 % 59.5-142

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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 5 (5') (H221507-05)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	44.1	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 6 (5') (H221507-06)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.8 % 59.5-142

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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 1 (0-5') (H221507-07)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 2 (0-5') (H221507-08)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.2 % 59.5-142

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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 3 (0-5') (H221507-09)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 4 (0-5') (H221507-10)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.0 % 59.5-142

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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 5 (0-5') (H221507-11)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/13/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 6 (0-5') (H221507-12)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57		
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67		
Total BTEX	<0.300	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/13/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1		
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49		
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND						

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 7 (0-5') (H221507-13)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.12	106	2.00	6.97		
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	6.43		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	100	2.00	6.66		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.19	103	6.00	6.18		
Total BTEX	<0.300	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/13/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1		
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49		
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND						

Surrogate: 1-Chlorooctane 97.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/12/2022	Sampling Date:	04/12/2022
Reported:	04/13/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02639	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 8 (0-5') (H221507-14)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.12	106	2.00	6.97		
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	6.43		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	100	2.00	6.66		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.19	103	6.00	6.18		
Total BTEX	<0.300	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/13/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	179	89.3	200	12.1		
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	183	91.5	200	2.49		
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND						

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: EOG Resources		Site Manager: Brittany Long	
Project Name: Diamond 31 Fed Com #2H		Project #: 212C-MD-02639	
Project Location: (county, state) Lea County		Project #: 212C-MD-02639	
Invoice to: Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Cardinal Laboratories		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE		
1	BH-1 (5)	4/12/2022		X				X		
2	BH-2 (5)	4/12/2022		X				X		
3	BH-3 (5)	4/12/2022		X				X		
4	BH-4 (5)	4/12/2022		X				X		
5	BH-5 (5)	4/12/2022		X				X		
6	BH-6 (5)	4/12/2022		X				X		
7	BH-1 (0-5)	4/12/2022		X				X		
8	BH-2 (0-5)	4/12/2022		X				X		
9	BH-3 (0-5)	4/12/2022		X				X		
10	BH-4 (0-5)	4/12/2022		X				X		

Reinquired by: <i>[Signature]</i>	Date: 4/12/22	Time: 1517	Received by: <i>[Signature]</i>	Date: 4-12-22	Time: 1517
Reinquired by: <i>[Signature]</i>	Date: 4/12/22	Time: 1517	Received by: <i>[Signature]</i>	Date: 4-12-22	Time: 1517

LAB USE ONLY	REMARKS:
<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> RUSH: Same Day 24 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	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

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Sample Temperature: 11.0°C
 0.5°C
 11.0°C #13

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 115569

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 115569
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/13/2022