

SITE INFORMATION

Report Type: Closure Report

General Site Information:

Site:	Medano VA State #10					
Company:	EOG Resources					
Section, Township and Range	Unit J	Sec. 16	T 23S	R 31E		
Lease Number:	API No. 30-015-32044					
County:	Eddy County					
GPS:	32.302120° N			103.780110° W		
Surface Owner:	State					
Mineral Owner:	State					
Directions:	From intersection NM-128 & Twin Wells Rd" Head onto NM-128 for 0.96 miles, Turn East on Lease Rd for approx. 0.11 miles. Continue for 0.74 miles. Turn East for 0.66 miles. Turn South for 0.03 miles to location. Arrive at the Medano VA State #10 pad.					

Release Data:

Date Released:	9/10/2020
Type Release:	Produced Water and Crude Oil
Source of Contamination:	Flow Line
Fluid Released:	77 bbls. PW / 8 bbls. Crude Oil
Fluids Recovered:	0 bbls.

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, 79701
Phone number:	(432) 258-4346		(432) 682-4559
Fax:			
Email:	Todd_Wells@eogresources.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	128.64' Below Surface
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

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

**TETRA TECH**

April 21, 2021

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

**Re: Closure Report
EOG Resources
Medano VA State #10
Unit J, Section 16, Township 23 South, Range 31 East,
Eddy County, New Mexico.
Incident ID: NRM2027234034**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the EOG Resources, Medano VA State #10 (API #: 30-015-32044). The Site is located in the Public Land Survey System (PLSS) Unit J, Section 16, Township 23 South, Range 31 East, Eddy County, New Mexico. The site coordinates are 32.302170°, -103.780094°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on September 10, 2020 due to a hole that developed in the poly flow line. Approximately 77 barrels (bbls.) of produced water and 8 bbls. of crude oil were released. No free fluids were recovered. The release was subsequently assigned the Incident ID NMR2027234034. C-141 forms are included in Appendix A.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances and the site is in a low karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 17, approximately 1.30 miles West of the site, and has a reported depth to groundwater of 128.64' feet below ground surface. In addition, a groundwater determination bore was drilled to 55 ft. bgs., and no groundwater was encountered. Site characterization data and well log are included in Appendix B.

Tetra Tech

901 West Wall Street, Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



TETRA TECH

Regulatory

A risk-based evaluation was performed for the Site in accordance with 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 for TPH is 100 mg/kg (GRO+DRO+MRO) in the upper four (4) ft. and 2,500 mg/kg (GRO+DRO+MRO) below (4) ft. bgs. Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg in the upper four (4) ft. and 10,000 mg/kg (GRO+DRO+MRO) below (4) ft. bgs.

Soil Assessments and Analytical Results

On October 13, 2020, Tetra Tech personnel were onsite to conduct a soil investigation and sample the release area. Soils were field screened for salinity using an Extech EC400 ExStik to determine sampling intervals. A total of ten (10) auger holes (AH-1 through AH-10) were installed to total depths ranging from 0-1.5', 0-2.5', 0-3.5' and 0-4.5' below ground surface (bgs). Additionally, eleven (11) horizontal samples (H-1 through H-11) were collected at depths of 1.0 ft. bgs. A total of forty-five (45) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, the sample location (AH-3) exceeded the Site RRAL for chloride (600 mg/kg) on the sample location from top to 1.5 ft. bgs. The sample location (AH-4) exceeded the Site RRAL for total TPH (100 mg/kg) in the sample interval from top to 1 ft. bgs. and chloride (600 mg/kg) on the sample location from top to 4.5 ft. bgs. The sample location (AH-5) exceeded the Site RRAL for total TPH (100 mg/kg) in the sample interval from top to 1 ft. bgs. and chloride (600 mg/kg) on the sample location from top to 3.5 ft. bgs. The sample locations (AH-6 and AH-7) exceeded the Site RRAL for total TPH (100 mg/kg) in the sample interval from top to 1 ft. bgs. and chloride (600 mg/kg) on the sample location from top to 1 ft. bgs. In addition, the sample locations (AH-8 and AH-9) exceeded the Site RRAL for total TPH (100 mg/kg) in the sample interval from top to 1 ft. bgs. The remainder of the auger holes (AH-1, AH-2, and AH-3) were below the Site RRAL for Total TPH (100 mg/kg). Additionally, the sample locations (AH-1 and AH-2) were below the site RRAL for chlorides (600 mg/kg). All the auger hole samples were below the Site RRALs for benzene (10 ppm), and total BTEX (50 ppm). None of the horizontal samples (H-1 through H-11) exceeded the Site RRALs for benzene (10 ppm), total BTEX (50 ppm), total TPH (100 mg/kg), or Chloride (600 mg/kg).

Remediation and Reclamation Activities

Based on the results of the site assessment, Tetra Tech personnel were onsite on February 3 and 4 2021, to supervise the remediation and reclamation activities as well as to collect confirmation samples. The impacted areas were excavated to a total depth ranging from 2'- 5.' below ground surface, as shown on Figure 4 and Table 2.

**TETRA TECH**

Confirmation bottom holes and sidewall samples were collected every 200 square feet. A total of thirty-one (31) bottom hole samples (BH-1 through BH-28 and BH-50 through BH-52) and twenty-seven (27) sidewall samples (SW-1 through SW-26, and SW-30) were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths and sample locations are shown in Figure 4.

Referring to Table 2, the sample locations (BH-51 and BH-52) exceeded the Site RRAL for total TPH (100 mg/kg) from to 0.5 ft. bgs. The remainder of the confirmation samples collected showed benzene, total BTEX, total TPH and chloride concentrations below the Site RRAL. Samples were collected at depths ranging from top to 2-ft bgs. and 5 ft. bgs.

On February 22, 2021, Tetra Tech returned to conduct soil sampling in the areas (BH-51 and BH-52) to depths from top to 1-ft. bgs. In addition, another sidewall sample (SW-30) was collected at a depth from top to 1-ft. bgs.

Referring to Table 2, the confirmation samples (BH-51, BH-52 and SW-30) collected showed benzene, total BTEX, total TPH and chloride concentrations below the Site RRAL.

Approximately 535 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.

Conclusion

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

Respectfully submitted,
TETRA TECH

Clair Gonzales, P.G.
Senior Project Manager
Tetra Tech, Inc.

Figures



 SITE LOCATION



0 2.5 5 Miles
Approximate Scale in Miles

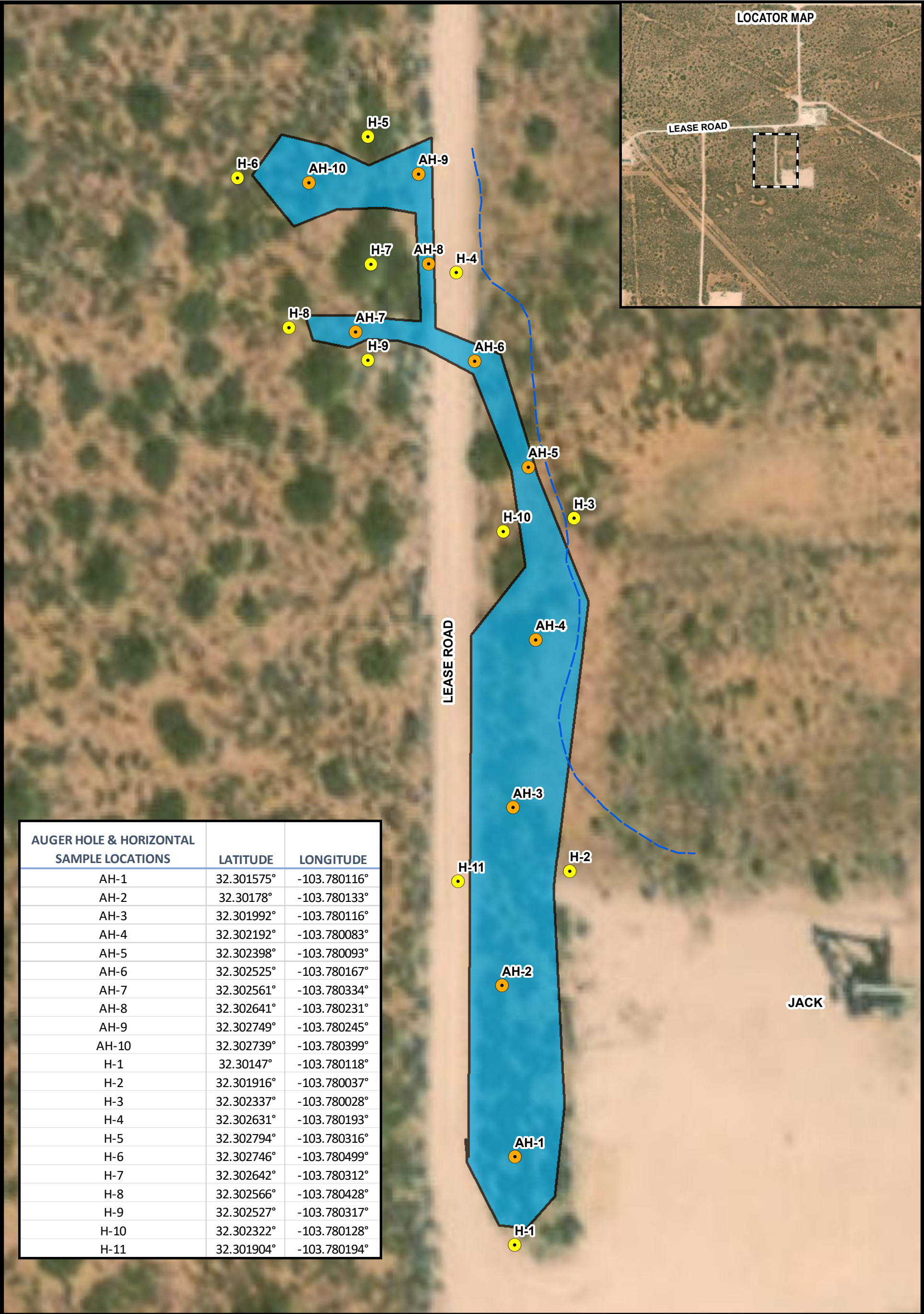
OVERVIEW MAP
MEDANO VA STATE #10
Property Located at coordinates 32.302170°, -103.780094°
EDDY COUNTY, NEW MEXICO



Project #:
212C-MD-02338

FIGURE
1

Source: ESRI Basemap - Streets, 2021.



AUGER HOLE & HORIZONTAL SAMPLE LOCATIONS	LATITUDE	LONGITUDE
AH-1	32.301575°	-103.780116°
AH-2	32.30178°	-103.780133°
AH-3	32.301992°	-103.780116°
AH-4	32.302192°	-103.780083°
AH-5	32.302398°	-103.780093°
AH-6	32.302525°	-103.780167°
AH-7	32.302561°	-103.780334°
AH-8	32.302641°	-103.780231°
AH-9	32.302749°	-103.780245°
AH-10	32.302739°	-103.780399°
H-1	32.30147°	-103.780118°
H-2	32.301916°	-103.780037°
H-3	32.302337°	-103.780028°
H-4	32.302631°	-103.780193°
H-5	32.302794°	-103.780316°
H-6	32.302746°	-103.780499°
H-7	32.302642°	-103.780312°
H-8	32.302566°	-103.780428°
H-9	32.302527°	-103.780317°
H-10	32.302322°	-103.780128°
H-11	32.301904°	-103.780194°

- AUGER HOLE SAMPLE LOCATION
- HORIZONTAL SAMPLE LOCATION
- EOG ABOVEGROUND POLY LINE
- SPILL AREA



0 20 40 Feet
Approximate Scale in Feet

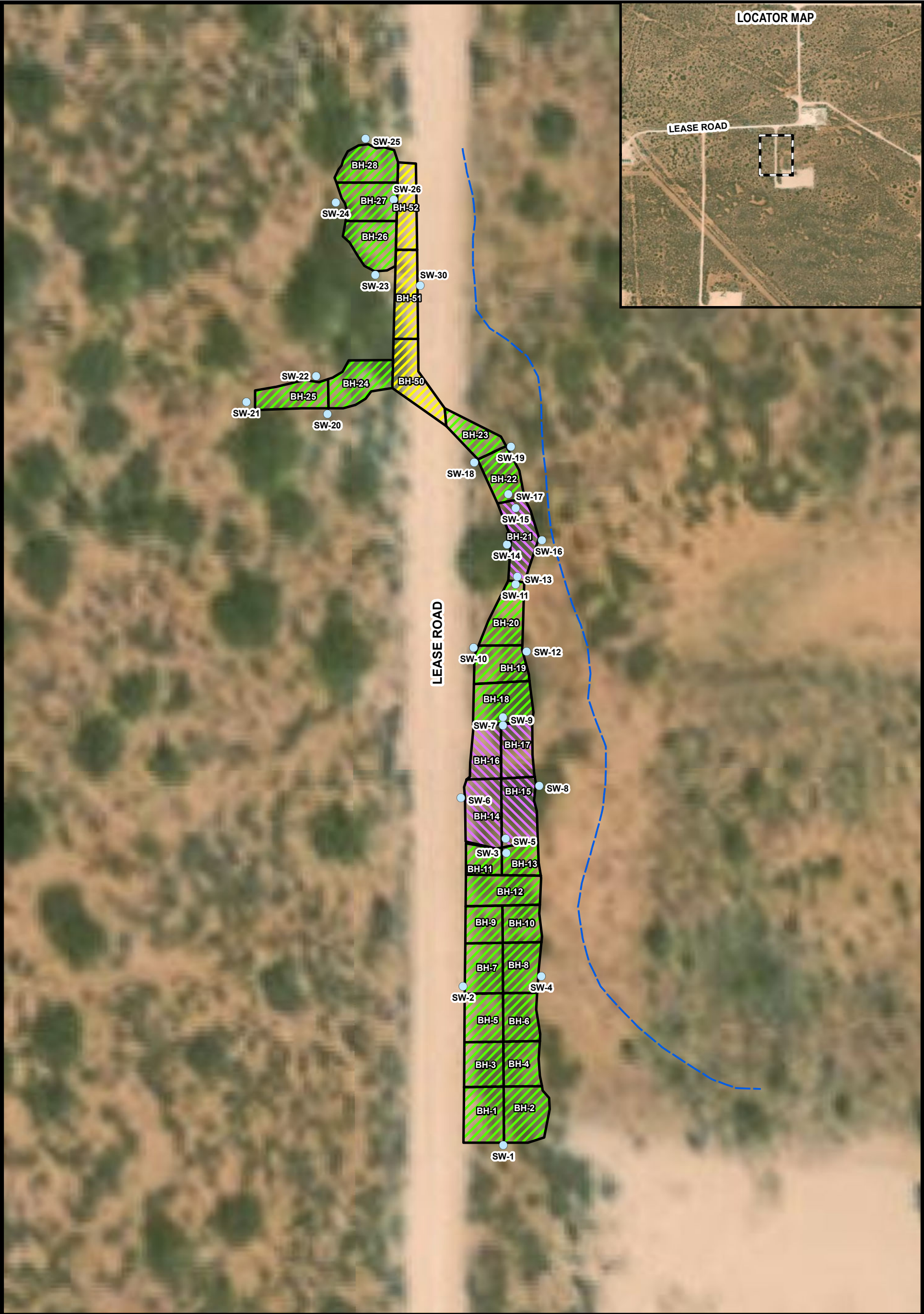
SPILL ASSESSMENT MAP
MEDANO VA STATE #10
Property Located at coordinates 32.302170° , -103.780094°
EDDY COUNTY, NEW MEXICO



FIGURE
3

C:\GIS\EOG Resources\212C-MD-02338_MedanoVAState#10\212C-MD-02338_MEDANO_VA_STATE#10_FIG3.mxd 3/9/2021 jpalpaters

Source: ESRI Basemap - Imagery, 2019.



- BH** BOTTOM HOLE SAMPLE LOCATION
- SIDEWALL DESIGNATION
- EOG ABOVEGROUND POLY LINE
- <6" SCRAPE AREA
- 2' EXCAVATED DEPTH AREA
- 5' EXCAVATED DEPTH AREA

Source: ESRI Basemap - Imagery, 2019.



0 15 30 Feet
Approximate Scale in Feet

EXCAVATION AREA AND DEPTH MAP
MEDANO VA STATE #10
Property Located at coordinates 32.302170°, -103.780094°
EDDY COUNTY, NEW MEXICO



FIGURE
4

Tables

Table 1
EOG
Medano VA State #10
Eddy 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						
AH-1	10/13/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	73.8
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	55.3
AH-2	10/13/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	294
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	443
AH-3	10/13/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,430
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	638
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	17.6
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	13.2
AH-4	10/13/2020	0-1	X		1,090	6,550	1,020	8,660	<0.0992	0.480	2.26	8.10	10.8	3,510
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	5,420
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	5,820
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	6,060
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	14,300
AH-5	10/13/2020	0-1	X		88.5	1,220	199	1,510	<0.00199	<0.00199	<0.00199	0.00379	0.00379	4,120
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	3,230
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	622
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	11,700
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	2,990
AH-6	10/13/2020	0-1	X		136	2,600	370	3,110	<0.00202	<0.00202	0.00527	0.0326	0.0379	2,940
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	49.0
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	29.6
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	21.3

Table 1
EOG
Medano VA State #10
Eddy 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						
AH-7	10/13/2020	0-1	X		<50.0	624	105	729	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	3,930
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	385
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	15.4
AH-8	10/13/2020	0-1	X		<250	4,920	824	5,740	<0.00199	<0.00199	<0.00199	0.00636	0.00636	494
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	71.5
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	11.3
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	11.5
AH-9	10/13/2020	0-1	X		<50.0	174	<50.0	174	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	59.3
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	9.53
AH-10	10/13/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.1
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	9.36
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	9.50
Horizontal-1	10/13/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	32.4
Horizontal-2	10/13/2020	0-1	X		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<5.01
Horizontal-3	10/13/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<4.96
Horizontal-4	10/13/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<4.99
Horizontal-5	10/13/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<4.98
Horizontal-6	10/13/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<4.95
Horizontal-7	10/13/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<5.02
Horizontal-8	10/13/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.96
Horizontal-9	10/13/2020	0-1	X		<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<4.95
Horizontal-10	10/13/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<5.04
Horizontal-11	10/13/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.9

(-)

Not Analyzed
Proposed Excavation

Table 2
EOG Resources
Medano VA State #10
Eddy County, New Mexico

Sample ID	Sample Date	Excavation 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						
BH-1	2/3/2021	2'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.2
BH-2	2/3/2021	2'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	11.9
BH-3	2/3/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.4
BH-4	2/3/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	10.8
BH-5	2/3/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	12.4
BH-6	2/3/2021	2'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	21.2
BH-7	2/3/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	18.6
BH-8	2/3/2021	2'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	22.7
BH-9	2/3/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	19.6
BH-10	2/3/2021	2'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	22.6
BH-11	2/3/2021	2'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	13.9
BH-12	2/3/2021	2'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	17.7
BH-13	2/3/2021	2'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	17.6
BH-14	2/3/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	12.5
BH-15	2/3/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2720
BH-16	2/3/2021	5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	14.6
BH-17	2/4/2021	5'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	13.0
BH-18	2/4/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.8
BH-19	2/4/2021	2'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	14.4
BH-20	2/4/2021	2'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	12.4
BH-21	2/4/2021	5'	X	-	99.3	<50.3	698	797	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	932
BH-22	2/4/2021	2'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	155
BH-23	2/4/2021	2'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	157
BH-24	2/4/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	19.1
BH-25	2/4/2021	2'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	18.5
BH-26	2/4/2021	2'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	17.5
BH-27	2/4/2021	2'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	13.5
BH-28	2/4/2021	2'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	10.8
BH-50	2/4/2021	0.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	19.9
BH-51	2/4/2021	0.5'	X	-	369	<250	2,600	2,969	<0.00971	<0.00971	<0.00971	0.00981	0.00981	163
BH-51	2/22/2021	1'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.8
BH-52	2/4/2021	0.5'	X	-	585	<250	4,560	5,145	<0.0189	<0.0189	<0.0189	0.0294	0.0294	280
BH-52	2/22/2021	1'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.2
SW-1	2/3/2021	2'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	21.1
SW-2	2/3/2021	2'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	17.5

Table 2
EOG Resources
Medano VA State #10
Eddy County, New Mexico

Sample ID	Sample Date	Excavation 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						
SW-3	2/3/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	17.0
SW-4	2/3/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	23.2
SW-5	2/3/2021	5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	14.3
SW-6	2/3/2021	5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	12.4
SW-7	2/3/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	12.5
SW-8	2/3/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	14.5
SW-9	2/3/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	13.9
SW-10	2/4/2021	2'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	15.8
SW-11	2/4/2021	2'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	18.0
SW-12	2/4/2021	2'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	18.1
SW-13	2/4/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	13.3
SW-14	2/4/2021	5'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	1320
SW-15	2/4/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	80.8
SW-16	2/4/2021	5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	16.3
SW-17	2/4/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	59.4
SW-18	2/4/2021	2'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	92.2
SW-19	2/4/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	81.0
SW-20	2/4/2021	2'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	58.8
SW-21	2/4/2021	2'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	15.4
SW-22	2/4/2021	2'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	27.4
SW-23	2/4/2021	2'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	17.8
SW-24	2/4/2021	2'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	20.8
SW-25	2/4/2021	5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	17.8
SW-26	2/4/2021	5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	15.7
SW-30	2/22/2021	1'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	6.44

(-) Not Analyzed
 Exceeding Thresholds

Photos

EOG Resources
Medano VA State #10
Eddy County, New Mexico



View of Remediation Activities – View West



View of Remediation Activities – View North

EOG Resources
Medano VA State #10
Eddy County, New Mexico



TETRA TECH



View of Remediation Activities – View Southeast



View of Remediation Activities – View South

Appendix A

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2027234034
District RP	
Facility ID	
Application ID	

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)
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.302170° Longitude -103.780094°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Medano VA State #10	Site Type Flow Line
Date Release Discovered 9/10/20	API# (if applicable) 30-015-32044

Unit Letter	Section	Township	Range	County
J	16	23S	31E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 8	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) 77	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The LO arrived on location and discovered a hole that developed in the poly flow line. Approximately 85 bbls of produced water and oil was released from the flow line and 0 bbls recovered.

Incident ID	NRM2027234034
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? 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)? E-mail notification to Mike Bratcher, Victoria Venegas and Robert Hamlet on 9/17/20.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <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>9-24-20</u>
email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u>
Received by: <u>Ramona Marcus</u> Date: <u>9/28/2020</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?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No

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

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

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

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

State of New Mexico
Oil Conservation Division

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: _____

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: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

TEST HOLES • WATER WELLS

WELL LOG

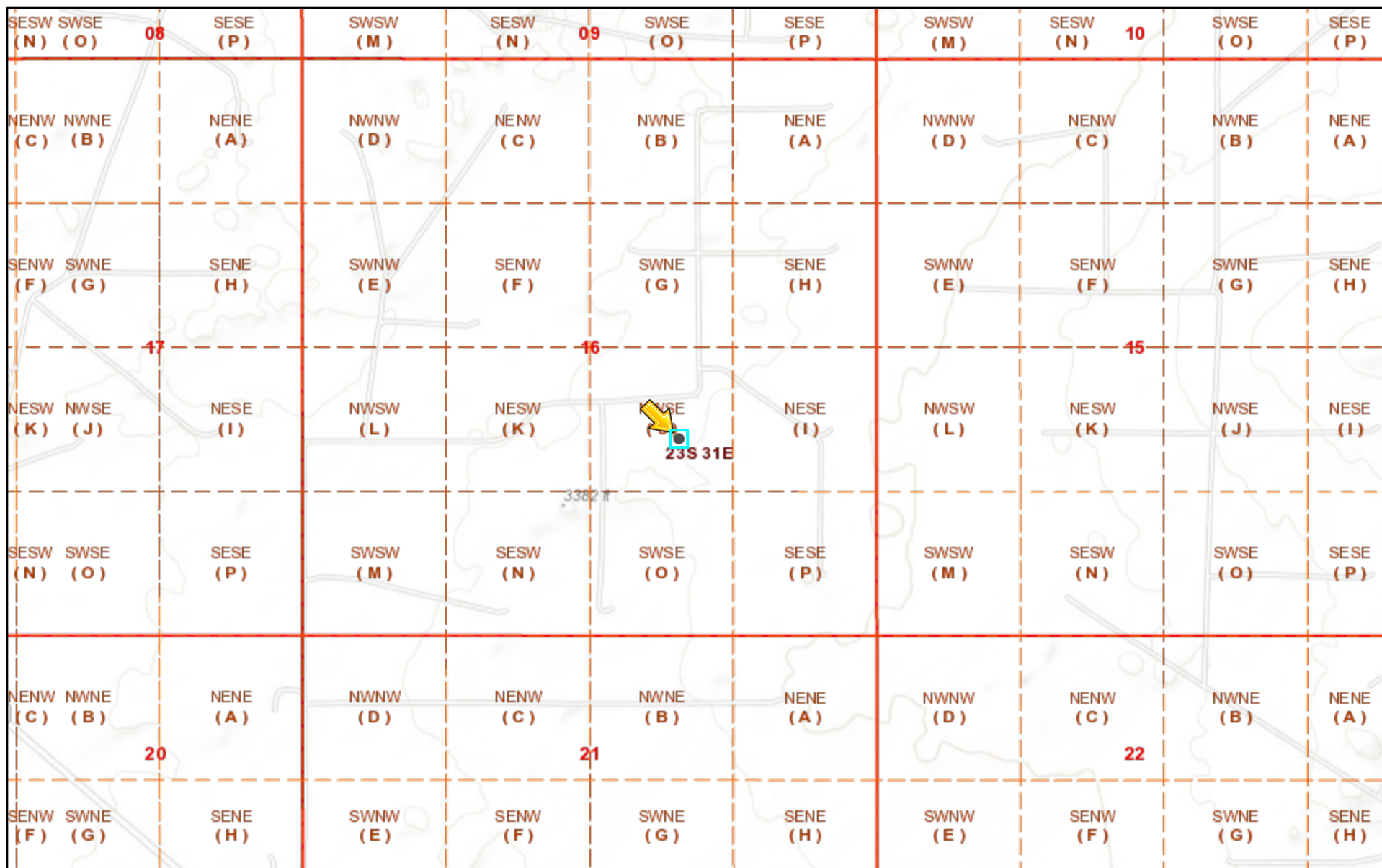
From	To	FORMATION
0	11	Top Soil
11	22	Caliche
22	55	Red Shale
		Red Clay
		BH-1
		EOG-Medano-VA#10
		Plugged w/ Hole Plug
		32,301536,-103,779162

Date 12-28-2020 Driller

La Searcy

GIBBS PRINTING CO.-LAMESA, TX

Medano VA State #10



3/3/2021, 8:31:38 AM



Override 1



PLSS Second Division



PLJV Probable Playas



OCD District Offices



PLSS Townships



OSE Streams

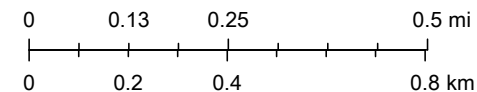


PLSS First Division



OSE Water-bodies

1:18,056



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

New Mexico Oil Conservation Division

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

Water Well Data
Average Depth to Groundwater (ft)
EOG - Medano VA State #10
Eddy County, New Mexico

22 South			30 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
		155			

22 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
		448			
	47				
	413	444			
		325			

22 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19 (S)	20	21	22	23	24
280					
30	29	28	27	26	25
31	32	33	34	35	36

23 South			30 East		
6	5	4	3	2	1
110				250	
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
			440		

23 South			31 East		
6	5	4	3	2	1
85	144	354	168		
140	94				
18	17	16	15	14	13
	129	SITE	639		
19	20	21	22	23	24
30	29	28	27	26	25
	140			100	
31	32	33	34	35	36

23 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
		400			
30	29	28	27	26	25
31	32	33	34	35	36

24 South			30 East		
6	5	4	3	2	1
7	8	9	10	11	12
	186				
18	17	16	15	14	13
19	231	20	21	22	23
150				400	
30	29	28	27	26	25
31	32	33	34	35	36

24 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
				192	

24 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
			20		
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
		290			

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

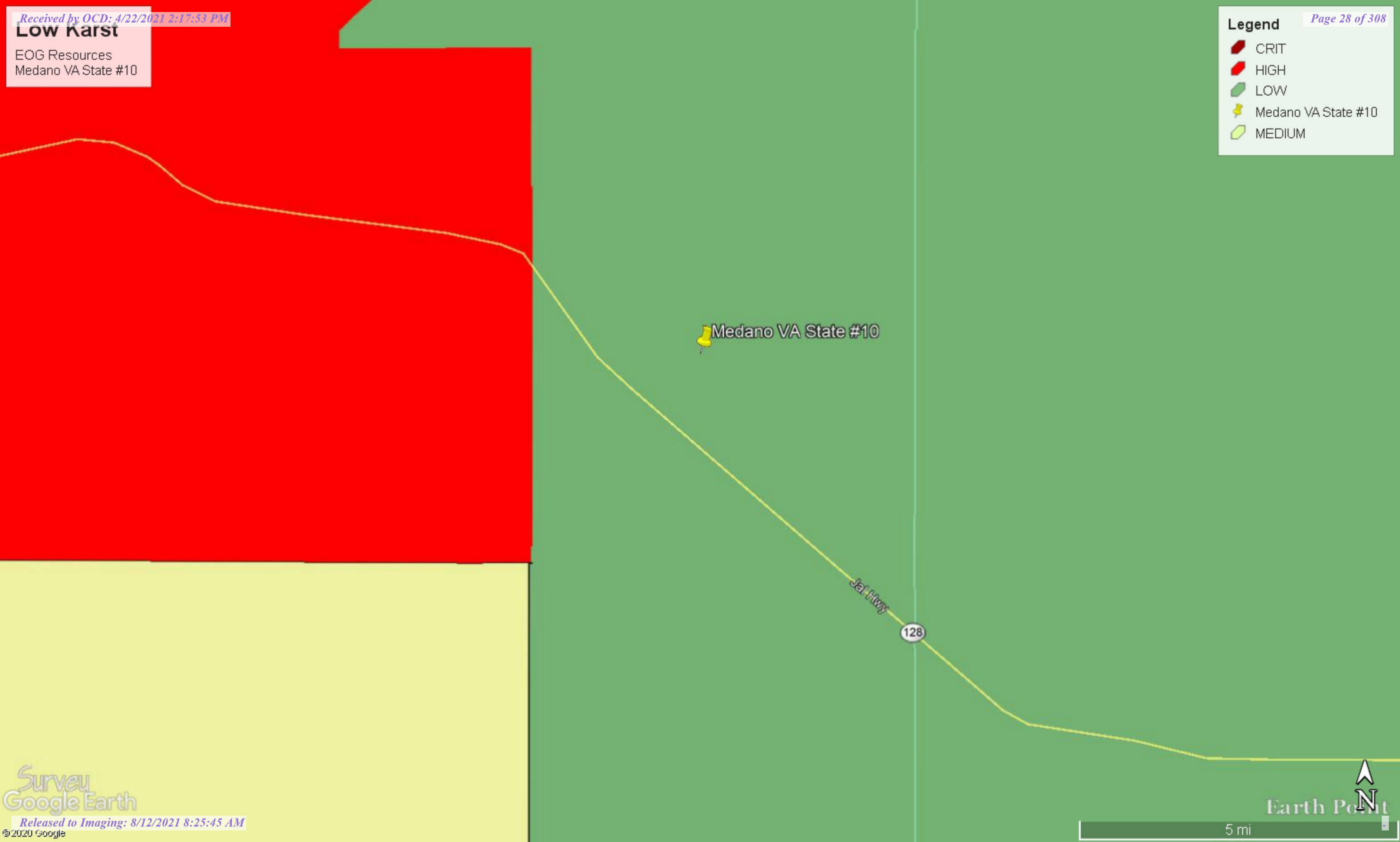
123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

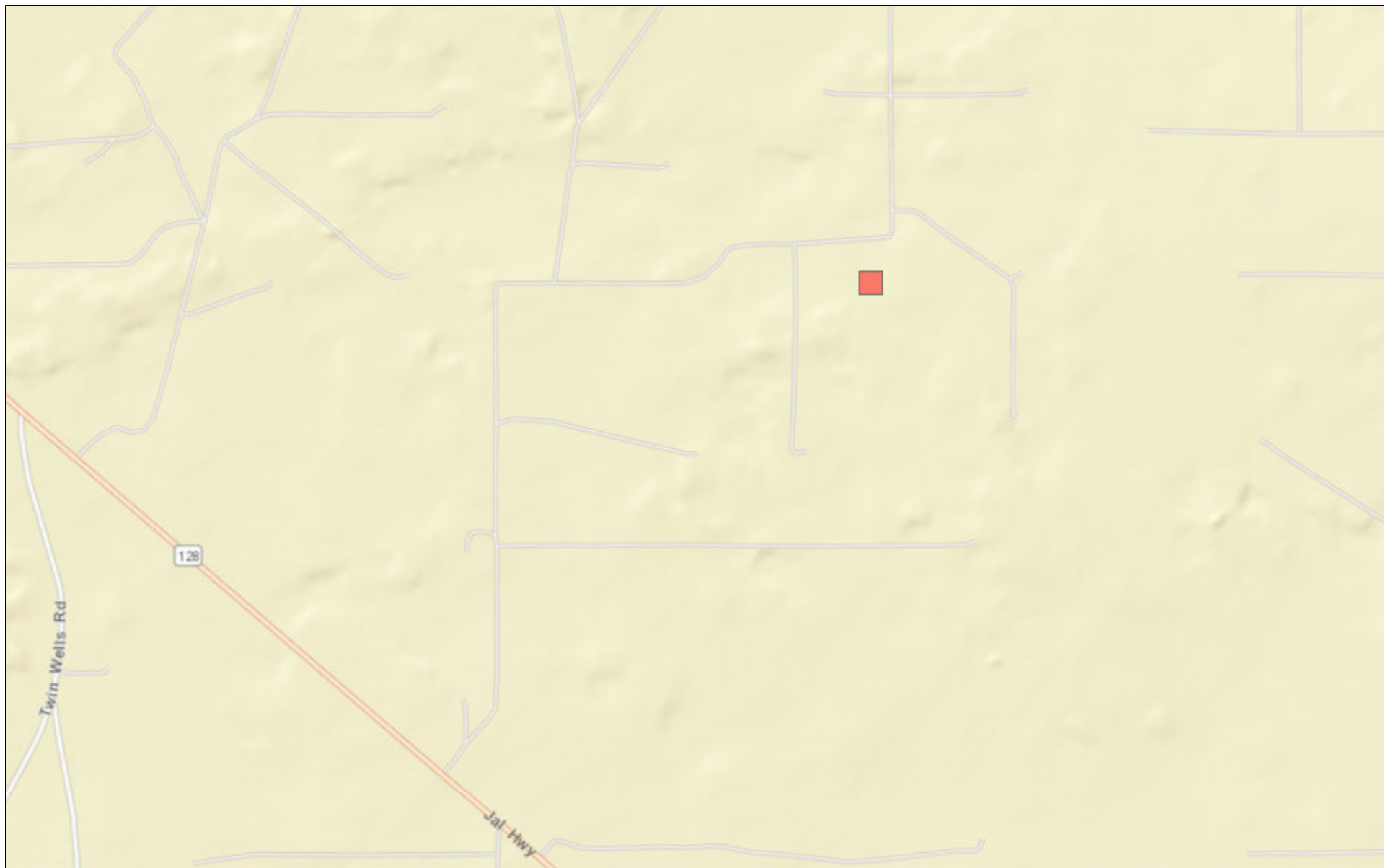
Low Karst
EOG Resources
Medano VA State #10

Legend

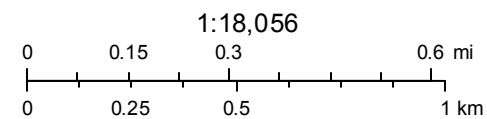
- CRIT
- HIGH
- LOW
- Medano VA State #10
- MEDIUM



New Mexico NFHL Data



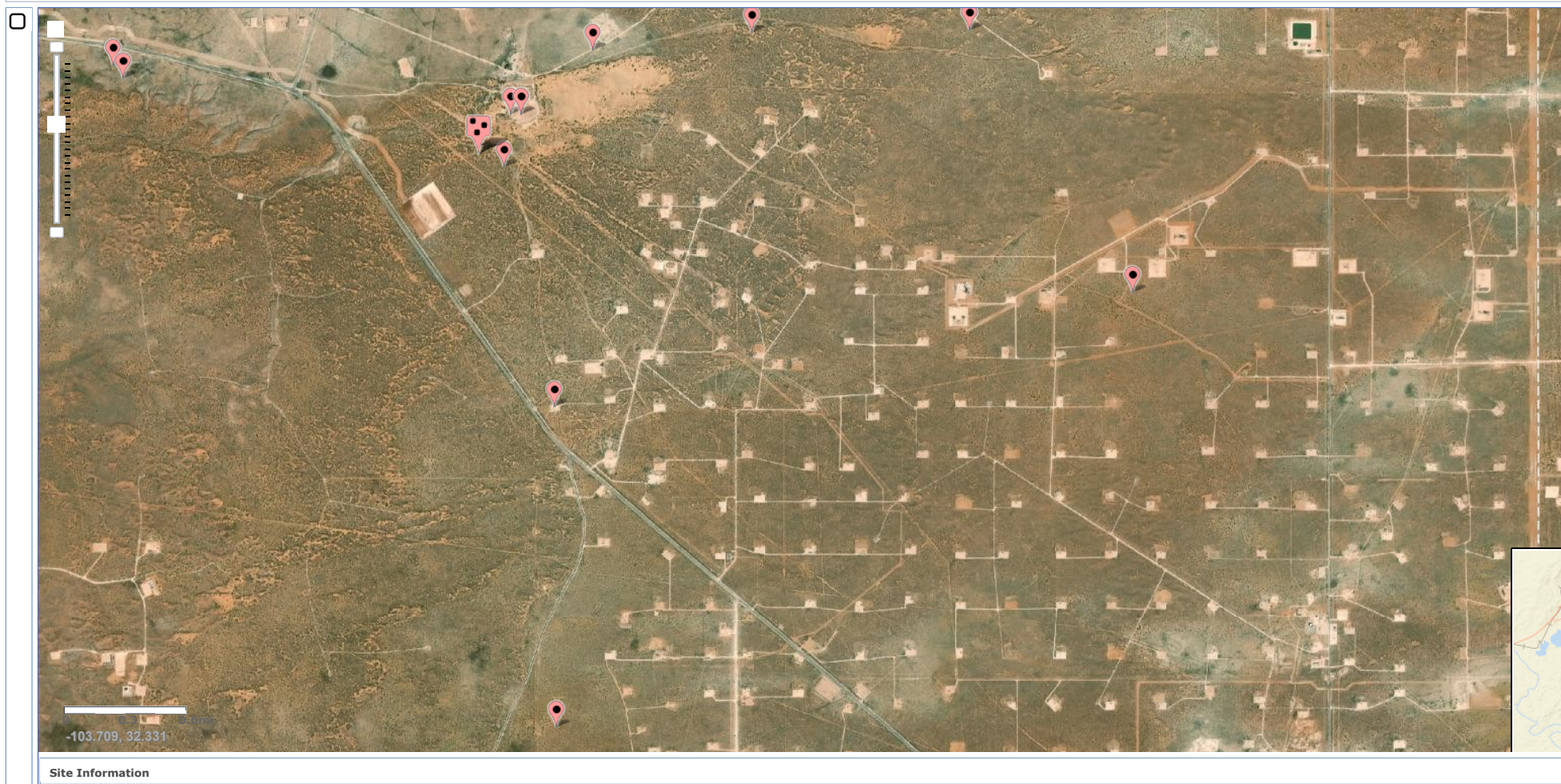
October 20, 2020



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),



National Water Information System: Mapper





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321809103481801

Minimum number of levels = 1

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

USGS 321809103481801 23S.31E.17.31141

Eddy County, New Mexico

Latitude 32°18'11.3", Longitude 103°48'23.4" NAD83

Land-surface elevation 3,326.00 feet above NGVD29

The depth of the well is 354 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1959-02-04			D 110.84			2	P	U			U A
1987-10-15			D 111.20			2		U			U A
1992-11-04			D 109.68			2		S			U A
2013-01-16	16:30 MST	m	128.64			2	R	S	USGS		S A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped.
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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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: 2020-10-20 22:51:03 EDT

0.28 0.25 nadww01



Appendix C

Certificate of Analysis Summary 675064

Tetra Tech- Midland, Midland, TX

Project Name: Medano VA State #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location: Eddy Co, NM

Date Received in Lab: Wed 10.14.2020 10:30

Report Date: 10.22.2020 14:49

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	675064-001	675064-002	675064-003	675064-004	675064-005	675064-006
	<i>Field Id:</i>	AH #1 (0-1')	AH #1 (1-1.5')	AH #2 (0-1')	AH #2 (1-1.5')	AH #3 (0-1')	AH #3 (1-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	10.21.2020 16:00		10.21.2020 16:00		10.21.2020 16:00	
	<i>Analyzed:</i>	10.22.2020 09:15		10.22.2020 09:35		10.22.2020 09:55	
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL		mg/kg RL	
Benzene		<0.00200 0.00200		<0.00199 0.00199		<0.00200 0.00200	
Toluene		<0.00200 0.00200		<0.00199 0.00199		<0.00200 0.00200	
Ethylbenzene		<0.00200 0.00200		<0.00199 0.00199		<0.00200 0.00200	
m,p-Xylenes		<0.00400 0.00400		<0.00398 0.00398		<0.00401 0.00401	
o-Xylene		<0.00200 0.00200		<0.00199 0.00199		<0.00200 0.00200	
Total Xylenes		<0.00200 0.00200		<0.00199 0.00199		<0.00200 0.00200	
Total BTEX		<0.00200 0.00200		<0.00199 0.00199		<0.00200 0.00200	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 14:50
	<i>Analyzed:</i>	10.21.2020 17:07	10.21.2020 17:23	10.21.2020 17:28	10.21.2020 17:34	10.21.2020 17:39	10.21.2020 17:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		73.8 5.00	55.3 5.04	294 5.00	443 250	1430 5.03	638 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	10.21.2020 15:00		10.21.2020 15:00		10.21.2020 15:00	
	<i>Analyzed:</i>	10.21.2020 18:14		10.21.2020 19:13		10.21.2020 19:32	
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL		mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9		<49.9 49.9		<49.9 49.9	
Diesel Range Organics (DRO)		<49.9 49.9		<49.9 49.9		<49.9 49.9	
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9		<49.9 49.9		<49.9 49.9	
Total TPH		<49.9 49.9		<49.9 49.9		<49.9 49.9	

BRL - Below Reporting Limit

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Certificate of Analysis Summary 675064

Tetra Tech- Midland, Midland, TX

Project Name: Medano VA State #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location: Eddy Co, NM

Date Received in Lab: Wed 10.14.2020 10:30

Report Date: 10.22.2020 14:49

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	675064-007	675064-008	675064-009	675064-010	675064-011	675064-012
	<i>Field Id:</i>	AH #3 (2-2.5')	AH #3 (3-3.5')	AH #4 (0-1')	AH #4 (1-1.5')	AH #4 (2-2.5')	AH #4 (3-3.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>			10.21.2020 16:00			
	<i>Analyzed:</i>			10.22.2020 07:49			
	<i>Units/RL:</i>			mg/kg RL			
Benzene				<0.0992 0.0992			
Toluene				0.480 0.0992			
Ethylbenzene				2.26 0.0992			
m,p-Xylenes				5.18 0.198			
o-Xylene				2.92 0.0992			
Total Xylenes				8.10 0.0992			
Total BTEX				10.8 0.0992			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 14:50
	<i>Analyzed:</i>	10.21.2020 18:00	10.21.2020 18:05	10.21.2020 18:11	10.21.2020 18:16	10.21.2020 18:21	10.21.2020 18:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		17.6 5.00	13.2 5.02	3510 24.9	5420 50.2	5820 X 50.5	6060 49.6
TPH By SW8015 Mod	<i>Extracted:</i>			10.21.2020 15:00			
	<i>Analyzed:</i>			10.21.2020 19:51			
	<i>Units/RL:</i>			mg/kg RL			
Gasoline Range Hydrocarbons (GRO)				1090 250			
Diesel Range Organics (DRO)				6550 250			
Motor Oil Range Hydrocarbons (MRO)				1020 250			
Total TPH				8660 250			

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Certificate of Analysis Summary 675064

Tetra Tech- Midland, Midland, TX

Project Name: Medano VA State #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location: Eddy Co, NM

Date Received in Lab: Wed 10.14.2020 10:30

Report Date: 10.22.2020 14:49

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	675064-013	675064-014	675064-015	675064-016	675064-017	675064-018
	<i>Field Id:</i>	AH #4 (4-4.5')	AH #5 (0-1')	AH #5 (1-1.5')	AH #5 (2-2.5')	AH #5 (3-3.5')	AH #5 (4-4.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>		10.21.2020 16:00				
	<i>Analyzed:</i>		10.22.2020 10:16				
	<i>Units/RL:</i>		mg/kg RL				
Benzene			<0.00199 0.00199				
Toluene			<0.00199 0.00199				
Ethylbenzene			<0.00199 0.00199				
m,p-Xylenes			<0.00398 0.00398				
o-Xylene			0.00379 0.00199				
Total Xylenes			0.00379 0.00199				
Total BTEX			0.00379 0.00199				
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	10.21.2020 14:50	10.21.2020 14:50	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15
	<i>Analyzed:</i>	10.21.2020 18:42	10.21.2020 18:58	10.21.2020 20:01	10.21.2020 20:17	10.21.2020 20:22	10.21.2020 20:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		14300 99.8	4120 25.1	3230 X 25.0	622 5.00	11700 100	2990 25.0
TPH By SW8015 Mod	<i>Extracted:</i>		10.21.2020 15:00				
	<i>Analyzed:</i>		10.21.2020 20:11				
	<i>Units/RL:</i>		mg/kg RL				
Gasoline Range Hydrocarbons (GRO)			88.5 50.0				
Diesel Range Organics (DRO)			1220 50.0				
Motor Oil Range Hydrocarbons (MRO)			199 50.0				
Total TPH			1510 50.0				

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Certificate of Analysis Summary 675064

Tetra Tech- Midland, Midland, TX

Project Name: Medano VA State #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location: Eddy Co, NM

Date Received in Lab: Wed 10.14.2020 10:30

Report Date: 10.22.2020 14:49

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	675064-019	675064-020	675064-021	675064-022	675064-023	675064-024
	<i>Field Id:</i>	AH #6 (0-1')	AH #6 (1-1.5')	AH #6 (2-2.5')	AH #6 (3-3.5')	AH #7 (0-1')	AH #7 (-1-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	10.21.2020 16:00				10.21.2020 16:00	
	<i>Analyzed:</i>	10.22.2020 10:36				10.22.2020 10:57	
	<i>Units/RL:</i>	mg/kg RL				mg/kg RL	
Benzene		<0.00202 0.00202				<0.00202 0.00202	
Toluene		<0.00202 0.00202				<0.00202 0.00202	
Ethylbenzene		0.00527 0.00202				<0.00202 0.00202	
m,p-Xylenes		0.0181 0.00403				<0.00403 0.00403	
o-Xylene		0.0145 0.00202				<0.00202 0.00202	
Total Xylenes		0.0326 0.00202				<0.00202 0.00202	
Total BTEX		0.0379 0.00202				<0.00202 0.00202	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15
	<i>Analyzed:</i>	10.21.2020 20:33	10.21.2020 20:49	10.21.2020 20:54	10.21.2020 20:59	10.21.2020 21:04	10.21.2020 21:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2940 25.0	49.0 5.00	29.6 5.00	21.3 5.00	3930 25.0	385 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	10.21.2020 15:00				10.21.2020 15:00	
	<i>Analyzed:</i>	10.21.2020 20:30				10.21.2020 20:49	
	<i>Units/RL:</i>	mg/kg RL				mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		136 49.9				<50.0 50.0	
Diesel Range Organics (DRO)		2600 49.9				624 50.0	
Motor Oil Range Hydrocarbons (MRO)		370 49.9				105 50.0	
Total TPH		3110 49.9				729 50.0	

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Certificate of Analysis Summary 675064

Tetra Tech- Midland, Midland, TX

Project Name: Medano VA State #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location: Eddy Co, NM

Date Received in Lab: Wed 10.14.2020 10:30

Report Date: 10.22.2020 14:49

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	675064-025	675064-026	675064-027	675064-028	675064-029	675064-030
	<i>Field Id:</i>	AH #7 (2-2.5')	AH #8 (0-1')	AH #8 (1-1.5')	AH #8 (2-2.5')	AH #8 (3-3.5')	AH #9 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>		10.21.2020 16:00				10.21.2020 16:00
	<i>Analyzed:</i>		10.22.2020 11:17				10.22.2020 11:38
	<i>Units/RL:</i>		mg/kg RL				mg/kg RL
Benzene			<0.00199 0.00199				<0.00200 0.00200
Toluene			<0.00199 0.00199				<0.00200 0.00200
Ethylbenzene			<0.00199 0.00199				<0.00200 0.00200
m,p-Xylenes			<0.00398 0.00398				<0.00400 0.00400
o-Xylene			0.00636 0.00199				<0.00200 0.00200
Total Xylenes			0.00636 0.00199				<0.00200 0.00200
Total BTEX			0.00636 0.00199				<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15
	<i>Analyzed:</i>	10.21.2020 21:15	10.21.2020 21:31	10.21.2020 21:36	10.21.2020 21:52	10.21.2020 21:57	10.21.2020 22:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		15.4 X 5.00	494 5.00	71.5 5.00	11.3 5.00	11.5 5.00	59.3 5.00
TPH By SW8015 Mod	<i>Extracted:</i>		10.21.2020 15:00				10.21.2020 15:00
	<i>Analyzed:</i>		10.21.2020 21:08				10.21.2020 21:28
	<i>Units/RL:</i>		mg/kg RL				mg/kg RL
Gasoline Range Hydrocarbons (GRO)			<250 250				<50.0 50.0
Diesel Range Organics (DRO)			4920 250				174 50.0
Motor Oil Range Hydrocarbons (MRO)			824 250				<50.0 50.0
Total TPH			5740 250				174 50.0

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Certificate of Analysis Summary 675064

Tetra Tech- Midland, Midland, TX

Project Name: Medano VA State #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location: Eddy Co, NM

Date Received in Lab: Wed 10.14.2020 10:30

Report Date: 10.22.2020 14:49

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	675064-031	675064-032	675064-033	675064-034		
	<i>Field Id:</i>	AH #9 (1-1.5')	AH #10 (0-1')	AH #10 (1-1.5')	AH #10 (2-2.5')		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>		10.21.2020 16:00				
	<i>Analyzed:</i>		10.22.2020 11:58				
	<i>Units/RL:</i>		mg/kg RL				
Benzene			<0.00198 0.00198				
Toluene			<0.00198 0.00198				
Ethylbenzene			<0.00198 0.00198				
m,p-Xylenes			<0.00397 0.00397				
o-Xylene			<0.00198 0.00198				
Total Xylenes			<0.00198 0.00198				
Total BTEX			<0.00198 0.00198				
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15	10.21.2020 15:15		
	<i>Analyzed:</i>	10.21.2020 22:08	10.21.2020 22:13	10.21.2020 22:18	10.21.2020 22:23		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		9.53 5.00	10.1 5.00	9.36 5.00	9.50 5.00		
TPH By SW8015 Mod	<i>Extracted:</i>		10.21.2020 15:00				
	<i>Analyzed:</i>		10.21.2020 21:47				
	<i>Units/RL:</i>		mg/kg RL				
Gasoline Range Hydrocarbons (GRO)			<49.9 49.9				
Diesel Range Organics (DRO)			<49.9 49.9				
Motor Oil Range Hydrocarbons (MRO)			<49.9 49.9				
Total TPH			<49.9 49.9				

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Analytical Report 675064

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Medano VA State #10

212C-MD-02338

10.22.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



10.22.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **675064**

Medano VA State #10

Project Address: Eddy 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 Eurofins Xenco, LLC Report Number(s) 675064. 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 Eurofins Xenco, LLC. 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. 675064 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH #1 (0-1')	S	10.13.2020 00:00		675064-001
AH #1 (1-1.5')	S	10.13.2020 00:00		675064-002
AH #2 (0-1')	S	10.13.2020 00:00		675064-003
AH #2 (1-1.5')	S	10.13.2020 00:00		675064-004
AH #3 (0-1')	S	10.13.2020 00:00		675064-005
AH #3 (1-1.5')	S	10.13.2020 00:00		675064-006
AH #3 (2-2.5')	S	10.13.2020 00:00		675064-007
AH #3 (3-3.5')	S	10.13.2020 00:00		675064-008
AH #4 (0-1')	S	10.13.2020 00:00		675064-009
AH #4 (1-1.5')	S	10.13.2020 00:00		675064-010
AH #4 (2-2.5')	S	10.13.2020 00:00		675064-011
AH #4 (3-3.5')	S	10.13.2020 00:00		675064-012
AH #4 (4-4.5')	S	10.13.2020 00:00		675064-013
AH #5 (0-1')	S	10.13.2020 00:00		675064-014
AH #5 (1-1.5')	S	10.13.2020 00:00		675064-015
AH #5 (2-2.5')	S	10.13.2020 00:00		675064-016
AH #5 (3-3.5')	S	10.13.2020 00:00		675064-017
AH #5 (4-4.5')	S	10.13.2020 00:00		675064-018
AH #6 (0-1')	S	10.13.2020 00:00		675064-019
AH #6 (1-1.5')	S	10.13.2020 00:00		675064-020
AH #6 (2-2.5')	S	10.13.2020 00:00		675064-021
AH #6 (3-3.5')	S	10.13.2020 00:00		675064-022
AH #7 (0-1')	S	10.13.2020 00:00		675064-023
AH #7 (-1-1.5')	S	10.13.2020 00:00		675064-024
AH #7 (2-2.5')	S	10.13.2020 00:00		675064-025
AH #8 (0-1')	S	10.13.2020 00:00		675064-026
AH #8 (1-1.5')	S	10.13.2020 00:00		675064-027
AH #8 (2-2.5')	S	10.13.2020 00:00		675064-028
AH #8 (3-3.5')	S	10.13.2020 00:00		675064-029
AH #9 (0-1')	S	10.13.2020 00:00		675064-030
AH #9 (1-1.5')	S	10.13.2020 00:00		675064-031
AH #10 (0-1')	S	10.13.2020 00:00		675064-032
AH #10 (1-1.5')	S	10.13.2020 00:00		675064-033
AH #10 (2-2.5')	S	10.13.2020 00:00		675064-034

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Medano VA State #10**

Project ID: 212C-MD-02338
Work Order Number(s): 675064

Report Date: 10.22.2020
Date Received: 10.14.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3140288 Inorganic Anions by EPA 300/300.1

Lab Sample ID 675064-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 675064-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3140294 Inorganic Anions by EPA 300/300.1

Lab Sample ID 675064-025 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 675064-015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #1 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-001

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	73.8	5.00	mg/kg	10.21.2020 17:07		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.21.2020 18:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.21.2020 18:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.21.2020 18:14	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.21.2020 18:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-130	10.21.2020 18:14		
o-Terphenyl	84-15-1	112	%	70-130	10.21.2020 18:14		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #1 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-001

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.22.2020 09:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.22.2020 09:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.22.2020 09:15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.22.2020 09:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.22.2020 09:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.22.2020 09:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.22.2020 09:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	10.22.2020 09:15		
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.22.2020 09:15		

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #1 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-002

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.3	5.04	mg/kg	10.21.2020 17:23		1



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #2 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-003

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	294	5.00	mg/kg	10.21.2020 17:28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.21.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.21.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.21.2020 19:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.21.2020 19:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-130	10.21.2020 19:13		
o-Terphenyl	84-15-1	107	%	70-130	10.21.2020 19:13		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #2 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-003

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.22.2020 09:35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.22.2020 09:35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.22.2020 09:35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.22.2020 09:35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.22.2020 09:35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.22.2020 09:35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.22.2020 09:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.22.2020 09:35	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.22.2020 09:35	

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #2 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-004

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	443	250	mg/kg	10.21.2020 17:34		50



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #3 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-005

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1430	5.03	mg/kg	10.21.2020 17:39		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.21.2020 19:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.21.2020 19:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.21.2020 19:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.21.2020 19:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-130	10.21.2020 19:32		
o-Terphenyl	84-15-1	115	%	70-130	10.21.2020 19:32		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #3 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-005

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.22.2020 09:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.22.2020 09:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.22.2020 09:55	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.22.2020 09:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.22.2020 09:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.22.2020 09:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.22.2020 09:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.22.2020 09:55		
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.22.2020 09:55		

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #3 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-006

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	638	4.99	mg/kg	10.21.2020 17:55		1

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #3 (2-2.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-007

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.6	5.00	mg/kg	10.21.2020 18:00		1

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #3 (3-3.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-008

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.2	5.02	mg/kg	10.21.2020 18:05		1



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-009

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3510	24.9	mg/kg	10.21.2020 18:11		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1090	250	mg/kg	10.21.2020 19:51		5
Diesel Range Organics (DRO)	C10C28DRO	6550	250	mg/kg	10.21.2020 19:51		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1020	250	mg/kg	10.21.2020 19:51		5
Total TPH	PHC635	8660	250	mg/kg	10.21.2020 19:51		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-130	10.21.2020 19:51		
o-Terphenyl	84-15-1	115	%	70-130	10.21.2020 19:51		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-009

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0992	0.0992	mg/kg	10.22.2020 07:49	U	50
Toluene	108-88-3	0.480	0.0992	mg/kg	10.22.2020 07:49		50
Ethylbenzene	100-41-4	2.26	0.0992	mg/kg	10.22.2020 07:49		50
m,p-Xylenes	179601-23-1	5.18	0.198	mg/kg	10.22.2020 07:49		50
o-Xylene	95-47-6	2.92	0.0992	mg/kg	10.22.2020 07:49		50
Total Xylenes	1330-20-7	8.10	0.0992	mg/kg	10.22.2020 07:49		50
Total BTEX		10.8	0.0992	mg/kg	10.22.2020 07:49		50
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	92	%	70-130	10.22.2020 07:49		
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.22.2020 07:49		

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-010

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5420	50.2	mg/kg	10.21.2020 18:16		10

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #4 (2-2.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-011

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5820	50.5	mg/kg	10.21.2020 18:21	X	10

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #4 (3-3.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-012

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6060	49.6	mg/kg	10.21.2020 18:37		10

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #4 (4-4.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-013

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14300	99.8	mg/kg	10.21.2020 18:42		20



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #5 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-014

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 14:50

% Moisture:

Seq Number: 3140288

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4120	25.1	mg/kg	10.21.2020 18:58		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	88.5	50.0	mg/kg	10.21.2020 20:11		1
Diesel Range Organics (DRO)	C10C28DRO	1220	50.0	mg/kg	10.21.2020 20:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	199	50.0	mg/kg	10.21.2020 20:11		1
Total TPH	PHC635	1510	50.0	mg/kg	10.21.2020 20:11		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-130	10.21.2020 20:11		
o-Terphenyl	84-15-1	129	%	70-130	10.21.2020 20:11		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #5 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-014

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.22.2020 10:16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.22.2020 10:16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.22.2020 10:16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.22.2020 10:16	U	1
o-Xylene	95-47-6	0.00379	0.00199	mg/kg	10.22.2020 10:16		1
Total Xylenes	1330-20-7	0.00379	0.00199	mg/kg	10.22.2020 10:16		1
Total BTEX		0.00379	0.00199	mg/kg	10.22.2020 10:16		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	87	%	70-130	10.22.2020 10:16		
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.22.2020 10:16		

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #5 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-015

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3230	25.0	mg/kg	10.21.2020 20:01	X	5

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #5 (2-2.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-016

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	622	5.00	mg/kg	10.21.2020 20:17		1

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #5 (3-3.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-017

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11700	100	mg/kg	10.21.2020 20:22		20

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #5 (4-4.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-018

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2990	25.0	mg/kg	10.21.2020 20:28		5



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-019

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2940	25.0	mg/kg	10.21.2020 20:33		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	136	49.9	mg/kg	10.21.2020 20:30		1
Diesel Range Organics (DRO)	C10C28DRO	2600	49.9	mg/kg	10.21.2020 20:30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	370	49.9	mg/kg	10.21.2020 20:30		1
Total TPH	PHC635	3110	49.9	mg/kg	10.21.2020 20:30		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	123	%	70-130	10.21.2020 20:30		
o-Terphenyl	84-15-1	120	%	70-130	10.21.2020 20:30		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-019

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.22.2020 10:36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.22.2020 10:36	U	1
Ethylbenzene	100-41-4	0.00527	0.00202	mg/kg	10.22.2020 10:36		1
m,p-Xylenes	179601-23-1	0.0181	0.00403	mg/kg	10.22.2020 10:36		1
o-Xylene	95-47-6	0.0145	0.00202	mg/kg	10.22.2020 10:36		1
Total Xylenes	1330-20-7	0.0326	0.00202	mg/kg	10.22.2020 10:36		1
Total BTEX		0.0379	0.00202	mg/kg	10.22.2020 10:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.22.2020 10:36	
4-Bromofluorobenzene	460-00-4	117	%	70-130	10.22.2020 10:36	

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #6 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-020

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	49.0	5.00	mg/kg	10.21.2020 20:49		1

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #6 (2-2.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-021

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.6	5.00	mg/kg	10.21.2020 20:54		1

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #6 (3-3.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-022

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.3	5.00	mg/kg	10.21.2020 20:59		1



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #7 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-023

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3930	25.0	mg/kg	10.21.2020 21:04		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.21.2020 20:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	624	50.0	mg/kg	10.21.2020 20:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	105	50.0	mg/kg	10.21.2020 20:49		1
Total TPH	PHC635	729	50.0	mg/kg	10.21.2020 20:49		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-130	10.21.2020 20:49		
o-Terphenyl	84-15-1	124	%	70-130	10.21.2020 20:49		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #7 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-023

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.22.2020 10:57	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.22.2020 10:57	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.22.2020 10:57	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.22.2020 10:57	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.22.2020 10:57	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.22.2020 10:57	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.22.2020 10:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	122	%	70-130	10.22.2020 10:57		
4-Bromofluorobenzene	460-00-4	72	%	70-130	10.22.2020 10:57		

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #7 (-1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-024

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	385	5.00	mg/kg	10.21.2020 21:10		1

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #7 (2-2.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-025

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.4	5.00	mg/kg	10.21.2020 21:15	X	1



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #8 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-026

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	494	5.00	mg/kg	10.21.2020 21:31		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250	mg/kg	10.21.2020 21:08	U	5
Diesel Range Organics (DRO)	C10C28DRO	4920	250	mg/kg	10.21.2020 21:08		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	824	250	mg/kg	10.21.2020 21:08		5
Total TPH	PHC635	5740	250	mg/kg	10.21.2020 21:08		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	128	%	70-130	10.21.2020 21:08		
o-Terphenyl	84-15-1	91	%	70-130	10.21.2020 21:08		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #8 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-026

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.22.2020 11:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.22.2020 11:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.22.2020 11:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.22.2020 11:17	U	1
o-Xylene	95-47-6	0.00636	0.00199	mg/kg	10.22.2020 11:17		1
Total Xylenes	1330-20-7	0.00636	0.00199	mg/kg	10.22.2020 11:17		1
Total BTEX		0.00636	0.00199	mg/kg	10.22.2020 11:17		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.22.2020 11:17		
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.22.2020 11:17		

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #8 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-027

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	71.5	5.00	mg/kg	10.21.2020 21:36		1

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #8 (2-2.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-028

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.3	5.00	mg/kg	10.21.2020 21:52		1



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: AH #8 (3-3.5')

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-029

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.5	5.00	mg/kg	10.21.2020 21:57		1



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #9 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-030

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.3	5.00	mg/kg	10.21.2020 22:02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.21.2020 21:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	174	50.0	mg/kg	10.21.2020 21:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.21.2020 21:28	U	1
Total TPH	PHC635	174	50.0	mg/kg	10.21.2020 21:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	10.21.2020 21:28	
o-Terphenyl	84-15-1	111	%	70-130	10.21.2020 21:28	



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #9 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-030

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.22.2020 11:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.22.2020 11:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.22.2020 11:38	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.22.2020 11:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.22.2020 11:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.22.2020 11:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.22.2020 11:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.22.2020 11:38		
4-Bromofluorobenzene	460-00-4	116	%	70-130	10.22.2020 11:38		

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #9 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-031

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.53	5.00	mg/kg	10.21.2020 22:08		1



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #10 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-032

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.1	5.00	mg/kg	10.21.2020 22:13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.21.2020 15:00

% Moisture:

Seq Number: 3140313

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.21.2020 21:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.21.2020 21:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.21.2020 21:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.21.2020 21:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-130	10.21.2020 21:47		
o-Terphenyl	84-15-1	114	%	70-130	10.21.2020 21:47		



Certificate of Analytical Results 675064

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **AH #10 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-032

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.21.2020 16:00

% Moisture:

Seq Number: 3140285

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.22.2020 11:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.22.2020 11:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.22.2020 11:58	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.22.2020 11:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.22.2020 11:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.22.2020 11:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.22.2020 11:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.22.2020 11:58		
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.22.2020 11:58		

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #10 (1-1.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-033

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.36	5.00	mg/kg	10.21.2020 22:18		1

**Certificate of Analytical Results 675064****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id: **AH #10 (2-2.5')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675064-034

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.21.2020 15:15

% Moisture:

Seq Number: 3140294

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.50	5.00	mg/kg	10.21.2020 22:23		1

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland

Medano VA State #10

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3140288

Matrix: Solid

Prep Method: E300P

Date Prep: 10.21.2020

MB Sample Id: 7713666-1-BLK

LCS Sample Id: 7713666-1-BKS

LCSD Sample Id: 7713666-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	251	100	90-110	0	20	mg/kg	10.21.2020 16:57	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3140294

Matrix: Solid

Prep Method: E300P

Date Prep: 10.21.2020

MB Sample Id: 7713667-1-BLK

LCS Sample Id: 7713667-1-BKS

LCSD Sample Id: 7713667-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	253	101	252	101	90-110	0	20	mg/kg	10.21.2020 19:51	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3140288

Matrix: Soil

Prep Method: E300P

Date Prep: 10.21.2020

Parent Sample Id: 675064-001

MS Sample Id: 675064-001 S

MSD Sample Id: 675064-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	73.8	250	344	108	344	108	90-110	0	20	mg/kg	10.21.2020 17:13	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3140288

Matrix: Soil

Prep Method: E300P

Date Prep: 10.21.2020

Parent Sample Id: 675064-011

MS Sample Id: 675064-011 S

MSD Sample Id: 675064-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5820	2530	8710	114	8740	115	90-110	0	20	mg/kg	10.21.2020 18:26	X

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3140294

Matrix: Soil

Prep Method: E300P

Date Prep: 10.21.2020

Parent Sample Id: 675064-015

MS Sample Id: 675064-015 S

MSD Sample Id: 675064-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3230	1250	4650	114	4600	110	90-110	1	20	mg/kg	10.21.2020 20:07	X

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3140294

Matrix: Soil

Prep Method: E300P

Date Prep: 10.21.2020

Parent Sample Id: 675064-025

MS Sample Id: 675064-025 S

MSD Sample Id: 675064-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.4	250	299	113	297	113	90-110	1	20	mg/kg	10.21.2020 21:20	X

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

Medano VA State #10

Analytical Method: TPH By SW8015 Mod

Seq Number: 3140313

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.21.2020

MB Sample Id: 7713694-1-BLK

LCS Sample Id: 7713694-1-BKS

LCSD Sample Id: 7713694-1-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)	<50.0	1000	950	95	953	95	70-130	0	20	mg/kg	10.21.2020 17:36	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1040	104	70-130	2	20	mg/kg	10.21.2020 17:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		112		121		70-130	%	10.21.2020 17:36
o-Terphenyl	119		118		126		70-130	%	10.21.2020 17:36

Analytical Method: TPH By SW8015 Mod

Seq Number: 3140313

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.21.2020

MB Sample Id: 7713694-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.21.2020 17:16	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3140313

Matrix: Soil

Prep Method: SW8015P

Date Prep: 10.21.2020

Parent Sample Id: 675064-001

MS Sample Id: 675064-001 S

MSD Sample Id: 675064-001 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)	<49.8	996	882	89	882	88	70-130	0	20	mg/kg	10.21.2020 18:34	
Diesel Range Organics (DRO)	<49.8	996	950	95	948	95	70-130	0	20	mg/kg	10.21.2020 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		115		70-130	%	10.21.2020 18:34
o-Terphenyl	117		116		70-130	%	10.21.2020 18:34

Analytical Method: BTEX by EPA 8021B

Seq Number: 3140285

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.21.2020

MB Sample Id: 7713697-1-BLK

LCS Sample Id: 7713697-1-BKS

LCSD Sample Id: 7713697-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.115	115	0.116	116	70-130	1	35	mg/kg	10.21.2020 21:16	
Toluene	<0.00200	0.100	0.102	102	0.104	104	70-130	2	35	mg/kg	10.21.2020 21:16	
Ethylbenzene	<0.00200	0.100	0.105	105	0.108	108	70-130	3	35	mg/kg	10.21.2020 21:16	
m,p-Xylenes	<0.00400	0.200	0.214	107	0.219	110	70-130	2	35	mg/kg	10.21.2020 21:16	
o-Xylene	<0.00200	0.100	0.107	107	0.109	109	70-130	2	35	mg/kg	10.21.2020 21:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		100		99		70-130	%	10.21.2020 21:16
4-Bromofluorobenzene	104		101		101		70-130	%	10.21.2020 21:16

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
 Medano VA State #10
Analytical Method: BTEX by EPA 8021B

Seq Number: 3140285

Parent Sample Id: 675581-059

Matrix: Soil

MS Sample Id: 675581-059 S

Prep Method: SW5035A

Date Prep: 10.21.2020

MSD Sample Id: 675581-059 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0987	99	0.0894	90	70-130	10	35	mg/kg	10.21.2020 21:57	
Toluene	<0.00200	0.100	0.0856	86	0.0790	79	70-130	8	35	mg/kg	10.21.2020 21:57	
Ethylbenzene	<0.00200	0.100	0.0846	85	0.0798	80	70-130	6	35	mg/kg	10.21.2020 21:57	
m,p-Xylenes	<0.00400	0.200	0.172	86	0.162	81	70-130	6	35	mg/kg	10.21.2020 21:57	
o-Xylene	<0.00200	0.100	0.0848	85	0.0805	81	70-130	5	35	mg/kg	10.21.2020 21:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	10.21.2020 21:57
4-Bromofluorobenzene	104		105		70-130	%	10.21.2020 21:57

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.

 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: Medano VA State #10			
Project Location: Eddy Co. NM		Project #: 212C-MD-02338	
Invoice to: EOG - Todd Wells			
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez / John Thurston	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None					
										YEAR: 2020				
	AH #1 (0-1')	10/13/2020		X				X				1 N		BTEX 8021B BTEX 8260B
	AH #1 (1-1.5')	10/13/2020		X				X				1 N		TPH TX1005 (Ext to C35)
	AH #2 (0-1')	10/13/2020		X				X				1 N		TPH 8015M (GRO - DRO - ORO - MRO)
	AH #2 (1-1.5')	10/13/2020		X				X				1 N		PAH 8270C
	AH #3 (0-1')	10/13/2020		X				X				1 N		Total Metals Ag As Ba Cd Cr Pb Se Hg
	AH #3 (1-1.5')	10/13/2020		X				X				1 N		TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	AH #3 (2-2.5')	10/13/2020		X				X				1 N		TCLP Volatiles
	AH #3 (3-3.5')	10/13/2020		X				X				1 N		TCLP Semi Volatiles
	AH #4 (0-1')	10/13/2020		X				X				1 N		RCI
	AH #4 (1-1.5')	10/13/2020		X				X				1 N		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

Sifted by: <i>Donna Infante</i> Date: 10/14/2020 Time: Sifted by: _____ Date: _____ Time: _____ Sifted by: _____ Date: _____ Time: _____ Sifted by: _____ Date: _____ Time: _____	Received by: <i>W. Carmona</i> Date: 10/14/2020 Time: 1030 Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
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LAB USE ONLY Sample Temperature: 45/40 REMARKS: ☒ STANDARD ☐ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____
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105064 Page 1 of 4

Analysis Request 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: Medano VA State #10			
Project Location: Eddy Co, NM		Project #: 212C-MD-02338	
Invoice to: EOG - Todd Wells			
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez / John Thurston	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
												YEAR: 2020
	AH #4 (2-2.5)	10/13/2020		X				X			1 N	
	AH #4 (3-3.5)	10/13/2020		X				X			1 N	
	AH #4 (4-4.5)	10/13/2020		X				X			1 N	
	AH #5 (0-1)	10/13/2020		X				X			1 N	
	AH #5 (1-1.5)	10/13/2020		X				X			1 N	
	AH #5 (2-2.5)	10/13/2020		X				X			1 N	
	AH #5 (3-3.5)	10/13/2020		X				X			1 N	
	AH #5 (4-4.5)	10/13/2020		X				X			1 N	
	AH #6 (0-1)	10/13/2020		X				X			1 N	
	AH #6 (1-1.5)	10/13/2020		X				X			1 N	

Relinquished by: <i>Connie J. J. J.</i>	Date: 10/14/2020	Time: 1030	Received by: <i>W. Carmona</i>	Date: 10/14	Time: 1030
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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

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	(Circle or Specify Method No.)
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Sample Temperature 45/40	(Circle) HAND DELIVERED FEDEX UPS Tracking #:
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675064 Page 2 of 4

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

675064 Page 3 of 4

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Medano VA State #10			
Project Location: Eddy Co, NM		Project #: 212C-MD-02338	
Invoice to: EOG - Todd Wells			
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez / John Thurston	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
AH #6 (2-2.5')		10/13/2020		X			X				1 N		
AH #6 (3-3.5')		10/13/2020		X			X				1 N		
AH #7 (0-1')		10/13/2020		X			X				1 N	X	
AH #7 (1-1.5')		10/13/2020		X			X				1 N		
AH #7 (2-2.5')		10/13/2020		X			X				1 N		
AH #8 (0-1')		10/13/2020		X			X				1 N	X	
AH #8 (1-1.5')		10/13/2020		X			X				1 N		
AH #8 (2-2.5')		10/13/2020		X			X				1 N		
AH #8 (3-3.5')		10/13/2020		X			X				1 N		
AH #9 (0-1')		10/13/2020		X			X				1 N	X	

Relinquished by: <i>Conn McHenry</i>	Date: 10/14/2020	Time: 10:30	Received by: <i>Mike Carmona</i>	Date: 10/14	Time: 1030
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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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: 4.5/-4.0 (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

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 10.14.2020 10.30.00 AM

Work Order #: 675064

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.6
#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 BTEX was in bulk container
#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: 10.14.2020

Checklist reviewed by:



Jessica Kramer

Date: 10.14.2020

Certificate of Analysis Summary 675063

Tetra Tech- Midland, Midland, TX

Project Name: Medano VA State #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location: Eddy Co, NM

Date Received in Lab: Wed 10.14.2020 10:30

Report Date: 10.19.2020 15:07

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	675063-001 Horizontal #1 (0-1') SOIL 10.13.2020 00:00	675063-002 Horizontal #2 (0-1') SOIL 10.13.2020 00:00	675063-003 Horizontal #3 (0-1') SOIL 10.13.2020 00:00	675063-004 Horizontal #4 (0-1') SOIL 10.13.2020 00:00	675063-005 Horizontal #5 (0-1') SOIL 10.13.2020 00:00	675063-006 Horizontal #6 (0-1') SOIL 10.13.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.14.2020 16:00 10.14.2020 17:38 mg/kg RL	10.14.2020 16:00 10.14.2020 17:59 mg/kg RL	10.14.2020 16:00 10.14.2020 18:19 mg/kg RL	10.14.2020 16:00 10.14.2020 18:40 mg/kg RL	10.14.2020 16:00 10.14.2020 19:00 mg/kg RL	10.14.2020 16:00 10.14.2020 19:21 mg/kg RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
m,p-Xylenes		<0.00403 0.00403	<0.00400 0.00400	<0.00403 0.00403	<0.00398 0.00398	<0.00398 0.00398	<0.00403 0.00403
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.15.2020 13:45 10.15.2020 16:42 mg/kg RL	10.15.2020 14:05 10.15.2020 17:56 mg/kg RL	10.15.2020 14:05 10.15.2020 18:15 mg/kg RL	10.15.2020 14:05 10.15.2020 18:22 mg/kg RL	10.15.2020 14:05 10.15.2020 18:28 mg/kg RL	10.15.2020 14:05 10.15.2020 18:34 mg/kg RL
Chloride		32.4 4.96	<5.01 5.01	<4.96 4.96	<4.99 4.99	<4.98 4.98	<4.95 4.95
TPH By SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	10.14.2020 12:00 10.14.2020 12:38 mg/kg RL	10.14.2020 12:00 10.14.2020 13:36 mg/kg RL	10.14.2020 12:00 10.14.2020 13:56 mg/kg RL	10.14.2020 12:00 10.14.2020 14:16 mg/kg RL	10.14.2020 12:00 10.14.2020 14:35 mg/kg RL	10.14.2020 12:00 10.14.2020 14:54 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 675063

Tetra Tech- Midland, Midland, TX

Project Name: Medano VA State #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location: Eddy Co, NM

Date Received in Lab: Wed 10.14.2020 10:30

Report Date: 10.19.2020 15:07

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	675063-007	675063-008	675063-009	675063-010	675063-011	
	<i>Field Id:</i>	Horizontal #7 (0-1')	Horizontal #8 (0-1')	Horizontal #9 (0-1')	Horizontal #10 (0-1')	Horizontal #11 (0-1')	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	10.13.2020 00:00	
BTEX by EPA 8021B	<i>Extracted:</i>	10.14.2020 16:00	10.14.2020 16:00	10.14.2020 16:00	10.14.2020 16:00	10.16.2020 11:00	
	<i>Analyzed:</i>	10.14.2020 19:41	10.14.2020 20:02	10.14.2020 20:22	10.14.2020 20:43	10.16.2020 16:15	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	
m,p-Xylenes		<0.00400 0.00400	<0.00399 0.00399	<0.00402 0.00402	<0.00404 0.00404	<0.00398 0.00398	
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	10.15.2020 14:05	10.15.2020 14:05	10.15.2020 14:05	10.15.2020 14:05	10.15.2020 14:05	
	<i>Analyzed:</i>	10.15.2020 18:53	10.15.2020 19:00	10.15.2020 19:06	10.15.2020 19:13	10.15.2020 19:19	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		<5.02 5.02	<4.96 4.96	<4.95 4.95	<5.04 5.04	10.9 4.97	
TPH By SW8015 Mod	<i>Extracted:</i>	10.14.2020 12:00	10.14.2020 12:00	10.14.2020 12:00	10.14.2020 12:00	10.14.2020 12:00	
	<i>Analyzed:</i>	10.14.2020 15:14	10.14.2020 15:34	10.14.2020 15:53	10.14.2020 16:13	10.14.2020 16:52	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	

BRL - Below Reporting Limit

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



Analytical Report 675063

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Medano VA State #10

212C-MD-02338

10.19.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



10.19.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **675063**

Medano VA State #10

Project Address: Eddy 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 Eurofins Xenco, LLC Report Number(s) 675063. 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 Eurofins Xenco, LLC. 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. 675063 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 675063****Tetra Tech- Midland, Midland, TX**

Medano VA State #10

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Horizontal #1 (0-1')	S	10.13.2020 00:00		675063-001
Horizontal #2 (0-1')	S	10.13.2020 00:00		675063-002
Horizontal #3 (0-1')	S	10.13.2020 00:00		675063-003
Horizontal #4 (0-1')	S	10.13.2020 00:00		675063-004
Horizontal #5 (0-1')	S	10.13.2020 00:00		675063-005
Horizontal #6 (0-1')	S	10.13.2020 00:00		675063-006
Horizontal #7 (0-1')	S	10.13.2020 00:00		675063-007
Horizontal #8 (0-1')	S	10.13.2020 00:00		675063-008
Horizontal #9 (0-1')	S	10.13.2020 00:00		675063-009
Horizontal #10 (0-1')	S	10.13.2020 00:00		675063-010
Horizontal #11 (0-1')	S	10.13.2020 00:00		675063-011



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Medano VA State #10

Project ID: 212C-MD-02338
Work Order Number(s): 675063

Report Date: 10.19.2020
Date Received: 10.14.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3139733 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.

Samples affected are: 675063-008.

Batch: LBA-3139759 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 675063-004,675063-011,675063-005.



Certificate of Analytical Results 675063

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #1 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-001

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 13:45

% Moisture:

Seq Number: 3139840

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.4	4.96	mg/kg	10.15.2020 16:42		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.14.2020 12:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.14.2020 12:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.14.2020 12:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.14.2020 12:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	77	%	70-130	10.14.2020 12:38		
o-Terphenyl	84-15-1	85	%	70-130	10.14.2020 12:38		



Certificate of Analytical Results 675063

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #1 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-001

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.14.2020 17:38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.14.2020 17:38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.14.2020 17:38	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.14.2020 17:38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.14.2020 17:38	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.14.2020 17:38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.14.2020 17:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	70-130	10.14.2020 17:38		
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.14.2020 17:38		



Certificate of Analytical Results 675063

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #2 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-002

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.01	5.01	mg/kg	10.15.2020 17:56	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.14.2020 13:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.14.2020 13:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.14.2020 13:36	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.14.2020 13:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	10.14.2020 13:36	
o-Terphenyl	84-15-1	87	%	70-130	10.14.2020 13:36	



Certificate of Analytical Results 675063

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #2 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-002

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.14.2020 17:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.14.2020 17:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.14.2020 17:59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.14.2020 17:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.14.2020 17:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.14.2020 17:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.14.2020 17:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.14.2020 17:59		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.14.2020 17:59		



Certificate of Analytical Results 675063

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #3 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-003

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	10.15.2020 18:15	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.14.2020 13:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.14.2020 13:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.14.2020 13:56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.14.2020 13:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	76	%	70-130	10.14.2020 13:56		
o-Terphenyl	84-15-1	82	%	70-130	10.14.2020 13:56		



Certificate of Analytical Results 675063

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #3 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-003

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.14.2020 18:19	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.14.2020 18:19	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.14.2020 18:19	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.14.2020 18:19	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.14.2020 18:19	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.14.2020 18:19	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.14.2020 18:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.14.2020 18:19		
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.14.2020 18:19		



Certificate of Analytical Results 675063

Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #4 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-004

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	10.15.2020 18:22	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.14.2020 14:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.14.2020 14:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.14.2020 14:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.14.2020 14:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	66	%	70-130	10.14.2020 14:16	**
o-Terphenyl	84-15-1	71	%	70-130	10.14.2020 14:16	



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #4 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-004

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.14.2020 18:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.14.2020 18:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.14.2020 18:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.14.2020 18:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.14.2020 18:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.14.2020 18:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.14.2020 18:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.14.2020 18:40		
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.14.2020 18:40		



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #5 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-005

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	10.15.2020 18:28	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.14.2020 14:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.14.2020 14:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.14.2020 14:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.14.2020 14:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	69	%	70-130	10.14.2020 14:35	**
o-Terphenyl	84-15-1	75	%	70-130	10.14.2020 14:35	



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #5 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-005

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.14.2020 19:00	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.14.2020 19:00	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.14.2020 19:00	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.14.2020 19:00	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.14.2020 19:00	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.14.2020 19:00	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.14.2020 19:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.14.2020 19:00		
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.14.2020 19:00		



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #6 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-006

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	10.15.2020 18:34	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.14.2020 14:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.14.2020 14:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.14.2020 14:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.14.2020 14:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	10.14.2020 14:54	
o-Terphenyl	84-15-1	78	%	70-130	10.14.2020 14:54	



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #6 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-006

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.14.2020 19:21	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.14.2020 19:21	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.14.2020 19:21	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.14.2020 19:21	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.14.2020 19:21	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.14.2020 19:21	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.14.2020 19:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.14.2020 19:21		
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.14.2020 19:21		



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #7 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-007

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	10.15.2020 18:53	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.14.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.14.2020 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.14.2020 15:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.14.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	10.14.2020 15:14	
o-Terphenyl	84-15-1	79	%	70-130	10.14.2020 15:14	



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #7 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-007

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.14.2020 19:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.14.2020 19:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.14.2020 19:41	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.14.2020 19:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.14.2020 19:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.14.2020 19:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.14.2020 19:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.14.2020 19:41		
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.14.2020 19:41		



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #8 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-008

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	10.15.2020 19:00	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.14.2020 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.14.2020 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.14.2020 15:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.14.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	10.14.2020 15:34	
o-Terphenyl	84-15-1	76	%	70-130	10.14.2020 15:34	



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #8 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-008

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.14.2020 20:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.14.2020 20:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.14.2020 20:02	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.14.2020 20:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.14.2020 20:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.14.2020 20:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.14.2020 20:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.14.2020 20:02		
4-Bromofluorobenzene	460-00-4	63	%	70-130	10.14.2020 20:02	**	



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #9 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-009

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	10.15.2020 19:06	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.14.2020 15:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.14.2020 15:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.14.2020 15:53	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.14.2020 15:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	10.14.2020 15:53	
o-Terphenyl	84-15-1	80	%	70-130	10.14.2020 15:53	



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #9 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-009

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.14.2020 20:22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.14.2020 20:22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.14.2020 20:22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.14.2020 20:22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.14.2020 20:22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.14.2020 20:22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.14.2020 20:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.14.2020 20:22		
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.14.2020 20:22		



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #10 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-010

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	10.15.2020 19:13	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.14.2020 16:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.14.2020 16:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.14.2020 16:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.14.2020 16:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	10.14.2020 16:13	
o-Terphenyl	84-15-1	75	%	70-130	10.14.2020 16:13	



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #10 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-010

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.14.2020 16:00

% Moisture:

Seq Number: 3139733

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.14.2020 20:43	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.14.2020 20:43	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.14.2020 20:43	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.14.2020 20:43	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.14.2020 20:43	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.14.2020 20:43	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.14.2020 20:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.14.2020 20:43		
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.14.2020 20:43		



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #11 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-011

Date Collected: 10.13.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.15.2020 14:05

% Moisture:

Seq Number: 3139841

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.9	4.97	mg/kg	10.15.2020 19:19		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.14.2020 12:00

% Moisture:

Seq Number: 3139759

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.14.2020 16:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.14.2020 16:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.14.2020 16:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.14.2020 16:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	67	%	70-130	10.14.2020 16:52	**	
o-Terphenyl	84-15-1	73	%	70-130	10.14.2020 16:52		



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Tetra Tech- Midland, Midland, TX

Medano VA State #10

Sample Id: **Horizontal #11 (0-1')**

Matrix: Soil

Date Received: 10.14.2020 10:30

Lab Sample Id: 675063-011

Date Collected: 10.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.16.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139923

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.16.2020 16:15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.16.2020 16:15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.16.2020 16:15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.16.2020 16:15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.16.2020 16:15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.16.2020 16:15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.16.2020 16:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.16.2020 16:15		
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.16.2020 16:15		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland

Medano VA State #10

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3139840

Matrix: Solid

Prep Method: E300P

Date Prep: 10.15.2020

MB Sample Id: 7713362-1-BLK

LCS Sample Id: 7713362-1-BKS

LCSD Sample Id: 7713362-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	246	98	246	98	90-110	0	20	mg/kg	10.15.2020 14:09	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3139841

Matrix: Solid

Prep Method: E300P

Date Prep: 10.15.2020

MB Sample Id: 7713365-1-BLK

LCS Sample Id: 7713365-1-BKS

LCSD Sample Id: 7713365-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	248	99	248	99	90-110	0	20	mg/kg	10.15.2020 17:44	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3139840

Matrix: Soil

Prep Method: E300P

Date Prep: 10.15.2020

Parent Sample Id: 675064-019

MS Sample Id: 675064-019 S

MSD Sample Id: 675064-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	21.8	252	283	104	284	104	90-110	0	20	mg/kg	10.15.2020 14:25	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3139840

Matrix: Soil

Prep Method: E300P

Date Prep: 10.15.2020

Parent Sample Id: 675064-029

MS Sample Id: 675064-029 S

MSD Sample Id: 675064-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1010	250	1230	88	1230	88	90-110	0	20	mg/kg	10.15.2020 15:38	X

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3139841

Matrix: Soil

Prep Method: E300P

Date Prep: 10.15.2020

Parent Sample Id: 675063-002

MS Sample Id: 675063-002 S

MSD Sample Id: 675063-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.01	251	270	108	270	108	90-110	0	20	mg/kg	10.15.2020 18:03	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3139841

Matrix: Soil

Prep Method: E300P

Date Prep: 10.15.2020

Parent Sample Id: 675063-011

MS Sample Id: 675063-011 S

MSD Sample Id: 675063-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.9	249	282	109	275	106	90-110	3	20	mg/kg	10.16.2020 12:11	

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

Medano VA State #10

Analytical Method: TPH By SW8015 Mod

Seq Number: 3139759

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.14.2020

MB Sample Id: 7713277-1-BLK

LCS Sample Id: 7713277-1-BKS

LCSD Sample Id: 7713277-1-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)	<50.0	1000	812	81	838	84	70-130	3	20	mg/kg	10.14.2020 11:59	
Diesel Range Organics (DRO)	<50.0	1000	878	88	806	81	70-130	9	20	mg/kg	10.14.2020 11:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	78		105		88		70-130	%	10.14.2020 11:59
o-Terphenyl	92		109		92		70-130	%	10.14.2020 11:59

Analytical Method: TPH By SW8015 Mod

Seq Number: 3139759

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.14.2020

MB Sample Id: 7713277-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.14.2020 11:39	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3139759

Matrix: Soil

Prep Method: SW8015P

Date Prep: 10.14.2020

Parent Sample Id: 675063-001

MS Sample Id: 675063-001 S

MSD Sample Id: 675063-001 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)	<49.9	998	843	84	803	81	70-130	5	20	mg/kg	10.14.2020 12:57	
Diesel Range Organics (DRO)	<49.9	998	860	86	808	81	70-130	6	20	mg/kg	10.14.2020 12:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		85		70-130	%	10.14.2020 12:57
o-Terphenyl	85		85		70-130	%	10.14.2020 12:57

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139733

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.14.2020

MB Sample Id: 7713290-1-BLK

LCS Sample Id: 7713290-1-BKS

LCSD Sample Id: 7713290-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0942	94	0.0898	90	70-130	5	35	mg/kg	10.14.2020 15:16	
Toluene	<0.00200	0.100	0.0930	93	0.0883	88	70-130	5	35	mg/kg	10.14.2020 15:16	
Ethylbenzene	<0.00200	0.100	0.0987	99	0.0941	94	70-130	5	35	mg/kg	10.14.2020 15:16	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.189	95	70-130	5	35	mg/kg	10.14.2020 15:16	
o-Xylene	<0.00200	0.100	0.101	101	0.0960	96	70-130	5	35	mg/kg	10.14.2020 15:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		99		70-130	%	10.14.2020 15:16
4-Bromofluorobenzene	104		99		101		70-130	%	10.14.2020 15:16

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 Medano VA State #10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139923

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.16.2020

MB Sample Id: 7713437-1-BLK

LCS Sample Id: 7713437-1-BKS

LCSD Sample Id: 7713437-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.127	127	0.119	119	70-130	7	35	mg/kg	10.16.2020 11:36	
Toluene	<0.00200	0.100	0.115	115	0.106	106	70-130	8	35	mg/kg	10.16.2020 11:36	
Ethylbenzene	<0.00200	0.100	0.114	114	0.107	107	70-130	6	35	mg/kg	10.16.2020 11:36	
m,p-Xylenes	<0.00400	0.200	0.231	116	0.219	110	70-130	5	35	mg/kg	10.16.2020 11:36	
o-Xylene	<0.00200	0.100	0.112	112	0.106	106	70-130	6	35	mg/kg	10.16.2020 11:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		102		101		70-130	%	10.16.2020 11:36
4-Bromofluorobenzene	100		101		98		70-130	%	10.16.2020 11:36

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139733

Matrix: Soil

Prep Method: SW5035A

Date Prep: 10.14.2020

Parent Sample Id: 675063-001

MS Sample Id: 675063-001 S

MSD Sample Id: 675063-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.0992	100	70-130	6	35	mg/kg	10.14.2020 15:57	
Toluene	<0.00200	0.100	0.0953	95	0.0918	92	70-130	4	35	mg/kg	10.14.2020 15:57	
Ethylbenzene	<0.00200	0.100	0.0896	90	0.0873	88	70-130	3	35	mg/kg	10.14.2020 15:57	
m,p-Xylenes	<0.00400	0.200	0.184	92	0.181	91	70-130	2	35	mg/kg	10.14.2020 15:57	
o-Xylene	<0.00200	0.100	0.0885	89	0.0872	88	70-130	1	35	mg/kg	10.14.2020 15:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		70-130	%	10.14.2020 15:57
4-Bromofluorobenzene	102		107		70-130	%	10.14.2020 15:57

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139923

Matrix: Soil

Prep Method: SW5035A

Date Prep: 10.16.2020

Parent Sample Id: 675155-011

MS Sample Id: 675155-011 S

MSD Sample Id: 675155-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0898	91	0.105	106	70-130	16	35	mg/kg	10.16.2020 12:17	
Toluene	<0.00198	0.0992	0.0807	81	0.0940	95	70-130	15	35	mg/kg	10.16.2020 12:17	
Ethylbenzene	<0.00198	0.0992	0.0790	80	0.0925	93	70-130	16	35	mg/kg	10.16.2020 12:17	
m,p-Xylenes	<0.00397	0.198	0.161	81	0.188	95	70-130	15	35	mg/kg	10.16.2020 12:17	
o-Xylene	<0.00198	0.0992	0.0783	79	0.0916	93	70-130	16	35	mg/kg	10.16.2020 12:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		70-130	%	10.16.2020 12:17
4-Bromofluorobenzene	99		103		70-130	%	10.16.2020 12:17

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 Chain of Custody Record



Tetra Tech, Inc.

 901W Wall Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

475063

Page 1 of 2

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Medano VA State #10			
Project Location: Eddy Co. NM		Project #: 212C-MD-02338	
Invoice to: EOG - Todd Wells			
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez, John Thurston	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None					
										YEAR: 2020				
	Horizontal #1 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #2 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #3 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #4 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #5 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #6 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #7 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #8 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #9 (0-1')	10/13/2020		X				X				1 N		
	Horizontal #10 (0-1')	10/13/2020		X				X				1 N		

Relinquished by: <i>Devin Dominguez</i>	Date: 10/14/2020	Time:	Received by: <i>Medano</i>	Date: 10/14	Time: 1030
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY		REMARKS:	
Sample Temperature	45/40	☒ STANDARD	
		☐ RUSH: Same Day 24 hr 48 hr 72 hr	
		☐ Rush Charges Authorized	
		☐ Special Report Limits or TRRP Report	

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

ORIGINAL COPY

675063

Page 2 of 2

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 10.14.2020 10.30.00 AM

Work Order #: 675063

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#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

BTEX was in bulk container

* 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: 10.14.2020

Checklist reviewed by:



Jessica Kramer

Date: 10.14.2020

Certificate of Analysis Summary 682922



Tetra Tech- Midland, Midland, TX

Project Name: Medano VA St #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location:

Date Received in Lab: Wed 12.30.2020 10:05

Report Date: 01.05.2021 15:35

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	682922-001	682922-002	682922-003	682922-004	682922-005	682922-006
	<i>Field Id:</i>	BH-1 (0'-1')	BH-1 (2'-3')	BH-1 (4'-5')	BH-1 (6'-7')	BH-1 (8'-9')	BH-1 (9'-10')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.28.2020 00:00	12.28.2020 00:00	12.28.2020 00:00	12.28.2020 00:00	12.28.2020 00:00	12.28.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	12.31.2020 10:00	12.31.2020 10:00	12.31.2020 10:00	12.31.2020 10:00	12.31.2020 10:00	12.31.2020 10:00
	<i>Analyzed:</i>	12.31.2020 17:34	12.31.2020 17:55	12.31.2020 18:16	12.31.2020 18:37	12.31.2020 18:57	12.31.2020 19:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Toluene		0.0412 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		0.232 X 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		0.624 X 0.00402	<0.00401 0.00401	<0.00403 0.00403	<0.00404 0.00404	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		0.364 X 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		0.988 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		1.26 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	12.30.2020 12:50	12.30.2020 12:50	12.30.2020 12:50	12.30.2020 12:50	12.30.2020 12:50	12.30.2020 12:50
	<i>Analyzed:</i>	12.30.2020 16:35	12.30.2020 16:51	12.30.2020 16:56	12.30.2020 17:02	12.30.2020 17:07	12.30.2020 17:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2380 25.2	5280 49.9	5070 49.6	8700 50.2	15800 253	8070 49.9
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 15:00	12.30.2020 15:00	12.30.2020 15:00	12.30.2020 15:00	12.30.2020 15:00	12.30.2020 15:00
	<i>Analyzed:</i>	12.31.2020 02:58	12.31.2020 01:51	12.31.2020 03:21	12.31.2020 03:44	12.31.2020 04:07	12.31.2020 04:29
	<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)		61.6 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		716 49.8	135 50.0	<50.0 50.0	152 49.9	73.8 50.0	184 50.0
Motor Oil Range Hydrocarbons (MRO)		66.2 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH		844 49.8	135 50.0	<50.0 50.0	152 49.9	73.8 50.0	184 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 682922



Tetra Tech- Midland, Midland, TX

Project Name: Medano VA St #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location:

Date Received in Lab: Wed 12.30.2020 10:05

Report Date: 01.05.2021 15:35

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	682922-007 BH-1 (11'-12') SOIL 12.28.2020 00:00	682922-008 BH-1 (13'-14') SOIL 12.28.2020 00:00	682922-009 BH-1 (19'-20') SOIL 12.28.2020 00:00	682922-015 BH-2 (0-1') SOIL 12.28.2020 00:00	682922-016 BH-2 (2'-3') SOIL 12.28.2020 00:00	682922-017 BH-2 (4'-5') SOIL 12.28.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	12.31.2020 10:00 12.31.2020 19:39 mg/kg RL	12.31.2020 10:00 12.31.2020 20:00 mg/kg RL	12.31.2020 10:00 12.31.2020 22:06 mg/kg RL	12.31.2020 10:00 12.31.2020 22:27 mg/kg RL	12.31.2020 10:00 12.31.2020 22:48 mg/kg RL	12.31.2020 10:00 12.31.2020 23:09 mg/kg RL
Benzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Toluene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Ethylbenzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
m,p-Xylenes		<0.00402 0.00402	<0.00404 0.00404	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398	<0.00403 0.00403
o-Xylene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Total Xylenes		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Total BTEX		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	12.30.2020 12:50 12.30.2020 17:17 mg/kg RL	12.30.2020 12:50 12.30.2020 17:33 mg/kg RL	12.30.2020 12:50 12.30.2020 17:38 mg/kg RL	12.30.2020 12:50 12.30.2020 17:54 mg/kg RL	12.30.2020 12:50 12.30.2020 17:59 mg/kg RL	12.30.2020 12:50 12.30.2020 18:04 mg/kg RL
Chloride		362 5.00	14100 248	2350 25.2	5150 49.8	5510 50.0	2200 25.0
TPH By SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	12.30.2020 15:00 12.31.2020 04:52 mg/kg RL	12.30.2020 15:00 12.31.2020 05:14 mg/kg RL	12.30.2020 15:00 12.31.2020 05:37 mg/kg RL	12.30.2020 15:00 12.31.2020 08:15 mg/kg RL	12.30.2020 15:00 12.31.2020 08:38 mg/kg RL	12.30.2020 15:00 12.31.2020 09:01 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		71.7 49.9	<49.8 49.8	<50.0 50.0	119 49.9	122 50.0	63.4 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Total TPH		71.7 49.9	<49.8 49.8	<50.0 50.0	119 49.9	122 50.0	63.4 49.9

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 682922



Tetra Tech- Midland, Midland, TX

Project Name: Medano VA St #10

Project Id: 212C-MD-02338

Contact: Mike Carmona

Project Location:

Date Received in Lab: Wed 12.30.2020 10:05

Report Date: 01.05.2021 15:35

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	682922-018	682922-019	682922-020			
	<i>Field Id:</i>	BH-2 (6'-7')	BH-2 (9'-10')	BH-2 (14'-15')			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	12.28.2020 00:00	12.28.2020 00:00	12.28.2020 00:00			
BTEX by EPA 8021B	<i>Extracted:</i>	12.31.2020 10:00	12.31.2020 10:00	12.31.2020 10:00			
	<i>Analyzed:</i>	12.31.2020 23:29	12.31.2020 23:50	01.01.2021 00:11			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199			
Toluene		<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199			
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199			
m,p-Xylenes		<0.00404 0.00404	<0.00402 0.00402	<0.00398 0.00398			
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199			
Total Xylenes		<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199			
Total BTEX		<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	12.30.2020 12:50	12.30.2020 12:50	12.30.2020 12:50			
	<i>Analyzed:</i>	12.30.2020 18:09	12.30.2020 18:15	12.30.2020 18:20			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		2460 25.0	27.8 5.02	17.3 5.00			
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 15:00	12.30.2020 15:00	12.30.2020 15:00			
	<i>Analyzed:</i>	12.31.2020 09:23	12.31.2020 09:46	12.31.2020 10:09			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0			
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0			
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0			

BRL - Below Reporting Limit

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

Analytical Report 682922

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Medano VA St #10

212C-MD-02338

01.05.2021

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



01.05.2021

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **682922**

Medano VA St #10

Project Address:

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 Eurofins Xenco, LLC Report Number(s) 682922. 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 Eurofins Xenco, LLC. 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. 682922 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 (0'-1')	S	12.28.2020 00:00		682922-001
BH-1 (2'-3')	S	12.28.2020 00:00		682922-002
BH-1 (4'-5')	S	12.28.2020 00:00		682922-003
BH-1 (6'-7')	S	12.28.2020 00:00		682922-004
BH-1 (8'-9')	S	12.28.2020 00:00		682922-005
BH-1 (9'-10')	S	12.28.2020 00:00		682922-006
BH-1 (11'-12')	S	12.28.2020 00:00		682922-007
BH-1 (13'-14')	S	12.28.2020 00:00		682922-008
BH-1 (19'-20')	S	12.28.2020 00:00		682922-009
BH-2 (0'-1')	S	12.28.2020 00:00		682922-015
BH-2 (2'-3')	S	12.28.2020 00:00		682922-016
BH-2 (4'-5')	S	12.28.2020 00:00		682922-017
BH-2 (6'-7')	S	12.28.2020 00:00		682922-018
BH-2 (9'-10')	S	12.28.2020 00:00		682922-019
BH-2 (14'-15')	S	12.28.2020 00:00		682922-020
BH-1 (24'-25')	S	12.28.2020 00:00		Not Analyzed
BH-1 (29'-30')	S	12.28.2020 00:00		Not Analyzed
BH-1 (34'-35')	S	12.28.2020 00:00		Not Analyzed
BH-1 (39'-40')	S	12.28.2020 00:00		Not Analyzed
BH-1 (44'-45')	S	12.28.2020 00:00		Not Analyzed

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Medano VA St #10**

Project ID: 212C-MD-02338
Work Order Number(s): 682922

Report Date: 01.05.2021
Date Received: 12.30.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3146698 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 682922-001.

Lab Sample ID 682922-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene 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: 682922-001, -002, -003, -004, -005, -006, -007, -008, -009, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3146755 TPH By SW8015 Mod

Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 682922-001.



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (0-1')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-001

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2380	25.2	mg/kg	12.30.2020 16:35		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	61.6	49.8	mg/kg	12.31.2020 02:58		1
Diesel Range Organics (DRO)	C10C28DRO	716	49.8	mg/kg	12.31.2020 02:58		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	66.2	49.8	mg/kg	12.31.2020 02:58		1
Total TPH	PHC635	844	49.8	mg/kg	12.31.2020 02:58		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	31	%	70-130	12.31.2020 02:58	**	
o-Terphenyl	84-15-1	36	%	70-130	12.31.2020 02:58	**	



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (0-1')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-001

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.31.2020 17:34	U	1
Toluene	108-88-3	0.0412	0.00201	mg/kg	12.31.2020 17:34		1
Ethylbenzene	100-41-4	0.232	0.00201	mg/kg	12.31.2020 17:34	X	1
m,p-Xylenes	179601-23-1	0.624	0.00402	mg/kg	12.31.2020 17:34	X	1
o-Xylene	95-47-6	0.364	0.00201	mg/kg	12.31.2020 17:34	X	1
Total Xylenes	1330-20-7	0.988	0.00201	mg/kg	12.31.2020 17:34		1
Total BTEX		1.26	0.00201	mg/kg	12.31.2020 17:34		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	590	%	70-130	12.31.2020 17:34	**	
1,4-Difluorobenzene	540-36-3	86	%	70-130	12.31.2020 17:34		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (2'-3')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-002

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5280	49.9	mg/kg	12.30.2020 16:51		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 01:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	135	50.0	mg/kg	12.31.2020 01:51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 01:51	U	1
Total TPH	PHC635	135	50.0	mg/kg	12.31.2020 01:51		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-130	12.31.2020 01:51		
o-Terphenyl	84-15-1	100	%	70-130	12.31.2020 01:51		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (2'-3')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-002

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 17:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 17:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 17:55	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.31.2020 17:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 17:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 17:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 17:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	12.31.2020 17:55		
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.31.2020 17:55		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (4'-5')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-003

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5070	49.6	mg/kg	12.30.2020 16:56		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 03:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 03:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 03:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 03:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-130	12.31.2020 03:21		
o-Terphenyl	84-15-1	104	%	70-130	12.31.2020 03:21		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (4'-5')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-003

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.31.2020 18:16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.31.2020 18:16	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.31.2020 18:16	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.31.2020 18:16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.31.2020 18:16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.31.2020 18:16	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.31.2020 18:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	12.31.2020 18:16		
1,4-Difluorobenzene	540-36-3	95	%	70-130	12.31.2020 18:16		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (6'-7')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-004

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8700	50.2	mg/kg	12.30.2020 17:02		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 03:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	152	49.9	mg/kg	12.31.2020 03:44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 03:44	U	1
Total TPH	PHC635	152	49.9	mg/kg	12.31.2020 03:44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	12.31.2020 03:44	
o-Terphenyl	84-15-1	96	%	70-130	12.31.2020 03:44	



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (6'-7')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-004

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.31.2020 18:37	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.31.2020 18:37	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.31.2020 18:37	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	12.31.2020 18:37	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.31.2020 18:37	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.31.2020 18:37	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.31.2020 18:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.31.2020 18:37		
4-Bromofluorobenzene	460-00-4	119	%	70-130	12.31.2020 18:37		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (8'-9')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-005

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15800	253	mg/kg	12.30.2020 17:07		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 04:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	73.8	50.0	mg/kg	12.31.2020 04:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 04:07	U	1
Total TPH	PHC635	73.8	50.0	mg/kg	12.31.2020 04:07		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-130	12.31.2020 04:07		
o-Terphenyl	84-15-1	103	%	70-130	12.31.2020 04:07		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (8'-9')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-005

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.31.2020 18:57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.31.2020 18:57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.31.2020 18:57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.31.2020 18:57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.31.2020 18:57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.31.2020 18:57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.31.2020 18:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	12.31.2020 18:57	
4-Bromofluorobenzene	460-00-4	114	%	70-130	12.31.2020 18:57	



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (9'-10')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-006

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8070	49.9	mg/kg	12.30.2020 17:12		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 04:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	184	50.0	mg/kg	12.31.2020 04:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 04:29	U	1
Total TPH	PHC635	184	50.0	mg/kg	12.31.2020 04:29		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-130	12.31.2020 04:29		
o-Terphenyl	84-15-1	97	%	70-130	12.31.2020 04:29		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (9'-10')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-006

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 19:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 19:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 19:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 19:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 19:18	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 19:18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 19:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 19:18		
4-Bromofluorobenzene	460-00-4	120	%	70-130	12.31.2020 19:18		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (11'-12')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-007

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	362	5.00	mg/kg	12.30.2020 17:17		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 04:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	71.7	49.9	mg/kg	12.31.2020 04:52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 04:52	U	1
Total TPH	PHC635	71.7	49.9	mg/kg	12.31.2020 04:52		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-130	12.31.2020 04:52		
o-Terphenyl	84-15-1	104	%	70-130	12.31.2020 04:52		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (11'-12')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-007

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.31.2020 19:39	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.31.2020 19:39	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.31.2020 19:39	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.31.2020 19:39	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.31.2020 19:39	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.31.2020 19:39	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.31.2020 19:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	12.31.2020 19:39		
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 19:39		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (13'-14')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-008

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14100	248	mg/kg	12.30.2020 17:33		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.31.2020 05:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.31.2020 05:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.31.2020 05:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.31.2020 05:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-130	12.31.2020 05:14		
o-Terphenyl	84-15-1	100	%	70-130	12.31.2020 05:14		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (13'-14')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-008

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.31.2020 20:00	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.31.2020 20:00	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.31.2020 20:00	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	12.31.2020 20:00	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.31.2020 20:00	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.31.2020 20:00	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.31.2020 20:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	12.31.2020 20:00	
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.31.2020 20:00	



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (19'-20')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-009

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2350	25.2	mg/kg	12.30.2020 17:38		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 05:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 05:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 05:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-130	12.31.2020 05:37		
o-Terphenyl	84-15-1	102	%	70-130	12.31.2020 05:37		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-1 (19'-20')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-009

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 22:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 22:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 22:06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 22:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 22:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 22:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 22:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.31.2020 22:06	
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.31.2020 22:06	



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (0-1')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-015

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5150	49.8	mg/kg	12.30.2020 17:54		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 08:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	119	49.9	mg/kg	12.31.2020 08:15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 08:15	U	1
Total TPH	PHC635	119	49.9	mg/kg	12.31.2020 08:15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	12.31.2020 08:15	
o-Terphenyl	84-15-1	96	%	70-130	12.31.2020 08:15	



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (0-1')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-015

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 22:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 22:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 22:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 22:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 22:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 22:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 22:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.31.2020 22:27		
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.31.2020 22:27		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (2'-3')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-016

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5510	50.0	mg/kg	12.30.2020 17:59		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 08:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	122	50.0	mg/kg	12.31.2020 08:38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 08:38	U	1
Total TPH	PHC635	122	50.0	mg/kg	12.31.2020 08:38		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-130	12.31.2020 08:38		
o-Terphenyl	84-15-1	96	%	70-130	12.31.2020 08:38		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (2'-3')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-016

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 22:48	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 22:48	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 22:48	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 22:48	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 22:48	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 22:48	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 22:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	70-130	12.31.2020 22:48	
4-Bromofluorobenzene	460-00-4	117	%	70-130	12.31.2020 22:48	



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (4'-5')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-017

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2200	25.0	mg/kg	12.30.2020 18:04		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 09:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	63.4	49.9	mg/kg	12.31.2020 09:01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 09:01	U	1
Total TPH	PHC635	63.4	49.9	mg/kg	12.31.2020 09:01		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	98	%	70-130	12.31.2020 09:01		
o-Terphenyl	84-15-1	97	%	70-130	12.31.2020 09:01		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (4'-5')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-017

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.31.2020 23:09	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.31.2020 23:09	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.31.2020 23:09	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.31.2020 23:09	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.31.2020 23:09	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.31.2020 23:09	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.31.2020 23:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.31.2020 23:09		
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 23:09		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (6'-7')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-018

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2460	25.0	mg/kg	12.30.2020 18:09		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 09:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 09:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 09:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 09:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-130	12.31.2020 09:23		
o-Terphenyl	84-15-1	102	%	70-130	12.31.2020 09:23		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (6'-7')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-018

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.31.2020 23:29	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.31.2020 23:29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.31.2020 23:29	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	12.31.2020 23:29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.31.2020 23:29	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.31.2020 23:29	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.31.2020 23:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.31.2020 23:29		
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 23:29		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (9'-10')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-019

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.8	5.02	mg/kg	12.30.2020 18:15		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 09:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 09:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 09:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 09:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	12.31.2020 09:46	
o-Terphenyl	84-15-1	102	%	70-130	12.31.2020 09:46	



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (9'-10')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-019

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.31.2020 23:50	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.31.2020 23:50	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.31.2020 23:50	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.31.2020 23:50	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.31.2020 23:50	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.31.2020 23:50	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.31.2020 23:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 23:50		
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.31.2020 23:50		



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Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (14'-15')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-020

Date Collected: 12.28.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 12.30.2020 12:50

% Moisture:

Seq Number: 3146452

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.3	5.00	mg/kg	12.30.2020 18:20		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: DVM

Date Prep: 12.30.2020 15:00

% Moisture:

Seq Number: 3146755

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 10:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 10:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 10:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 10:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-130	12.31.2020 10:09		
o-Terphenyl	84-15-1	104	%	70-130	12.31.2020 10:09		



Certificate of Analytical Results 682922

Tetra Tech- Midland, Midland, TX

Medano VA St #10

Sample Id: **BH-2 (14'-15')**

Matrix: Soil

Date Received: 12.30.2020 10:05

Lab Sample Id: 682922-020

Date Collected: 12.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.31.2020 10:00

% Moisture:

Seq Number: 3146698

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.01.2021 00:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.01.2021 00:11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.01.2021 00:11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.01.2021 00:11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.01.2021 00:11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.01.2021 00:11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.01.2021 00:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.01.2021 00:11	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.2021 00:11	

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland

Medano VA St #10

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146452

Matrix: Solid

Prep Method: E300P

Date Prep: 12.30.2020

MB Sample Id: 7718143-1-BLK

LCS Sample Id: 7718143-1-BKS

LCSD Sample Id: 7718143-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	246	98	247	99	90-110	0	20	mg/kg	12.30.2020 15:54	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146452

Matrix: Soil

Prep Method: E300P

Date Prep: 12.30.2020

Parent Sample Id: 682902-003

MS Sample Id: 682902-003 S

MSD Sample Id: 682902-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.03	253	262	101	261	101	90-110	0	20	mg/kg	12.30.2020 16:09	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146452

Matrix: Soil

Prep Method: E300P

Date Prep: 12.30.2020

Parent Sample Id: 682922-007

MS Sample Id: 682922-007 S

MSD Sample Id: 682922-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	362	250	610	99	611	100	90-110	0	20	mg/kg	12.30.2020 17:22	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146755

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.30.2020

MB Sample Id: 7718203-1-BLK

LCS Sample Id: 7718203-1-BKS

LCSD Sample Id: 7718203-1-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)	<50.0	1000	1120	112	1140	114	70-130	2	20	mg/kg	12.31.2020 01:06	
Diesel Range Organics (DRO)	<50.0	1000	995	100	1030	103	70-130	3	20	mg/kg	12.31.2020 01:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		114		129		70-130	%	12.31.2020 01:06
o-Terphenyl	108		110		116		70-130	%	12.31.2020 01:06

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146755

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.30.2020

MB Sample Id: 7718203-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.31.2020 00:44	

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

Medano VA St #10

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146755

Parent Sample Id: 682922-002

Matrix: Soil

MS Sample Id: 682922-002 S

Prep Method: SW8015P

Date Prep: 12.30.2020

MSD Sample Id: 682922-002 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)	<49.9	998	1200	120	1140	114	70-130	5	20	mg/kg	12.31.2020 02:14	
Diesel Range Organics (DRO)	135	998	1100	97	1050	92	70-130	5	20	mg/kg	12.31.2020 02:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		116		70-130	%	12.31.2020 02:14
o-Terphenyl	104		102		70-130	%	12.31.2020 02:14

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146698

MB Sample Id: 7718330-1-BLK

Matrix: Solid

LCS Sample Id: 7718330-1-BKS

Prep Method: SW5035A

Date Prep: 12.31.2020

LCSD Sample Id: 7718330-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.113	113	0.109	109	70-130	4	35	mg/kg	12.31.2020 15:11	
Toluene	<0.00200	0.100	0.112	112	0.107	107	70-130	5	35	mg/kg	12.31.2020 15:11	
Ethylbenzene	<0.00200	0.100	0.112	112	0.108	108	70-130	4	35	mg/kg	12.31.2020 15:11	
m,p-Xylenes	<0.00400	0.200	0.222	111	0.214	107	70-130	4	35	mg/kg	12.31.2020 15:11	
o-Xylene	<0.00200	0.100	0.107	107	0.103	103	70-130	4	35	mg/kg	12.31.2020 15:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		96		93		70-130	%	12.31.2020 15:11
4-Bromofluorobenzene	121		104		106		70-130	%	12.31.2020 15:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146698

Parent Sample Id: 682922-001

Matrix: Soil

MS Sample Id: 682922-001 S

Prep Method: SW5035A

Date Prep: 12.31.2020

MSD Sample Id: 682922-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.120	120	0.121	120	70-130	1	35	mg/kg	12.31.2020 15:52	
Toluene	0.0412	0.0998	0.112	71	0.113	71	70-130	1	35	mg/kg	12.31.2020 15:52	
Ethylbenzene	0.232	0.0998	0.113	0	0.112	0	70-130	1	35	mg/kg	12.31.2020 15:52	X
m,p-Xylenes	0.624	0.200	0.222	0	0.219	0	70-130	1	35	mg/kg	12.31.2020 15:52	X
o-Xylene	0.364	0.0998	0.108	0	0.107	0	70-130	1	35	mg/kg	12.31.2020 15:52	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	12.31.2020 15:52
4-Bromofluorobenzene	108		108		70-130	%	12.31.2020 15:52

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 Chain of Custody Record



Tetra Tech, Inc.

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

Client Name:

EOG

Site Manager: Mike Carmona

Project Name:

Medano VA St #10

Project Location:
(county, state) Eddy County, New Mexico

Project #:

212C-MVD-02338

Invoice to:

Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Devlin Dominguez

Comments: Run deeper samples if TPH (GRO + DRO + MRO) exceeds 2,500 mg/kg or (GRO + DRO) exceeds 1,000 mg/kg.
Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg.

SAMPLE IDENTIFICATION

5:33 PM

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)																Hold																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		DATE	TIME	WATER	SOIL		HCL	HNO ₃	ICE	None																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	BH-1 (0-1')	12/28/2020		X			X					1	N	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

Relinquished by: [Signature] Date: 12/30 Time: 10:05

Received by: [Signature]

Date: 12-30-20 Time: 10:05

Relinquished by: [Signature] Date: 12/30 Time: 10:05

Received by: [Signature]

Date: 12-30-20 Time: 10:05

Relinquished by: [Signature] Date: 12/30 Time: 10:05

Received by: [Signature]

Date: 12-30-20 Time: 10:05

ANALYSIS REQUEST
(Circle or Specify Method No.)

182922

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	
TPH 8015R	
Hold	

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

682922

Client Name: EOG		Site Manager: Mike Carmona										
Project Name: Medano VA St #10		Project #: 212C-MV-02338										
Project Location: Eddy County, New Mexico		Project #:										
Invoice to: Todd Wells		Sampler Signature: Devin Dominguez										
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez										
Comments: Run deeper samples if TPH (GRO + DRO + MRO) exceeds 2,500 mg/kg or (GRO + DRO) exceeds 1,000 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg.												
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		YEAR: 2020	DATE		TIME	WATER	SOIL	HCL	HNO ₃			ICE
	BH-1 (29'-30')		12/28/2020			X					1	N
	BH-1 (34'-35')		12/28/2020		X			X			1	N
	BH-1 (39'-40')		12/28/2020		X			X			1	N
	BH-1 (44'-45')		12/28/2020		X			X			1	N
	BH-2 (0'-1')		12/28/2020		X			X			1	N
	BH-2 (2'-3')		12/28/2020		X			X			1	N
	BH-2 (4'-5')		12/28/2020		X			X			1	N
	BH-2 (6'-7')		12/28/2020		X			X			1	N
	BH-2 (9'-10')		12/28/2020		X			X			1	N
	BH-2 (14'-15')		12/28/2020		X			X			1	N
Relinquished by: [Signature]		Date: 12/30	Time: 10:05	Received by: [Signature]	Date: 12-30-20	Time: 10:05						
Relinquished by:		Date:	Time:	Received by:	Date:	Time:						
Relinquished by:		Date:	Time:	Received by:	Date:	Time:						
LAB USE ONLY		LAB USE ONLY										
REMARKS:		STANDARD										
Push: Same Day 24 hr 48 hr 72 hr		9.6										
Special Report Limits or TRRP Report		9.6										

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 12.30.2020 10.05.00 AM

Work Order #: 682922

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	9.6
#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: 12.30.2020

Checklist reviewed by:



Jessica Kramer

Date: 12.31.2020



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-157-1

Laboratory Sample Delivery Group: 212C-MD-02338
Client Project/Site: Medano VA State #10

For:

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

Attn: Clair Gonzales

A handwritten signature in black ink, appearing to read "Jessica Kramer".

Authorized for release by:
2/10/2021 7:01:15 PM

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

LINKS

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results through

TotalAccess

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www.eurofinsus.com/Env

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

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

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Laboratory Job ID: 890-157-1
SDG: 212C-MD-02338

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Job ID: 890-157-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-157-1

Receipt

The samples were received on 2/5/2021 1:10 PM; 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

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 890-185 and analytical batch 890-216 were outside control limits for Over C10-C28. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-1 (2')

Lab Sample ID: 890-157-1

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 01:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 01:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 01:20	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 01:20	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 01:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/21 10:16	02/07/21 01:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	99		70 - 130	02/06/21 10:16	02/07/21 01:20	1
4-Bromofluorobenzene (Surr)	102		70 - 130	02/06/21 10:16	02/07/21 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 10:30	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 10:30	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 10:30	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 135	02/06/21 15:20	02/09/21 10:30	1
o-Terphenyl	84		70 - 135	02/06/21 15:20	02/09/21 10:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		9.94		mg/Kg			02/06/21 00:08	1

Client Sample ID: BH-2 (2')

Lab Sample ID: 890-157-2

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 02:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 02:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 02:28	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 02:28	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 02:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:16	02/07/21 02:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130	02/06/21 10:16	02/07/21 02:28	1
4-Bromofluorobenzene (Surr)	106		70 - 130	02/06/21 10:16	02/07/21 02:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.1	U	50.1		mg/Kg		02/06/21 15:20	02/09/21 11:32	1
Total TPH	<50.1	U	50.1		mg/Kg		02/06/21 15:20	02/09/21 11:32	1
Over C10-C28	<50.1	U	50.1		mg/Kg		02/06/21 15:20	02/09/21 11:32	1
>C28-C35	<50.1	U	50.1		mg/Kg		02/06/21 15:20	02/09/21 11:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-2 (2')

Lab Sample ID: 890-157-2

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	02/06/21 15:20	02/09/21 11:32	1
o-Terphenyl	95		70 - 135	02/06/21 15:20	02/09/21 11:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		10.0		mg/Kg			02/06/21 00:25	1

Client Sample ID: BH-3 (2')

Lab Sample ID: 890-157-3

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 02:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 02:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 02:50	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 02:50	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 02:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/21 10:16	02/07/21 02:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	101		70 - 130				02/06/21 10:16	02/07/21 02:50	1
4-Bromofluorobenzene (Surr)	107		70 - 130				02/06/21 10:16	02/07/21 02:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 11:52	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 11:52	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 11:52	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135				02/06/21 15:20	02/09/21 11:52	1
o-Terphenyl	91		70 - 135				02/06/21 15:20	02/09/21 11:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		9.96		mg/Kg			02/06/21 00:30	1

Client Sample ID: BH-4 (2')

Lab Sample ID: 890-157-4

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 03:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 03:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 03:12	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 03:12	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 03:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/21 10:16	02/07/21 03:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-4 (2')

Lab Sample ID: 890-157-4

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130				02/06/21 10:16	02/07/21 03:12	1
4-Bromofluorobenzene (Surr)	109		70 - 130				02/06/21 10:16	02/07/21 03:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 12:13	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 12:13	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 12:13	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 135				02/06/21 15:20	02/09/21 12:13	1
o-Terphenyl	89		70 - 135				02/06/21 15:20	02/09/21 12:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		9.90		mg/Kg			02/06/21 00:36	1

Client Sample ID: BH-5 (2')

Lab Sample ID: 890-157-5

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 03:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 03:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 03:35	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 03:35	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 03:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/21 10:16	02/07/21 03:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	100		70 - 130				02/06/21 10:16	02/07/21 03:35	1
4-Bromofluorobenzene (Surr)	109		70 - 130				02/06/21 10:16	02/07/21 03:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 12:33	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 12:33	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 12:33	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135				02/06/21 15:20	02/09/21 12:33	1
o-Terphenyl	97		70 - 135				02/06/21 15:20	02/09/21 12:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-5 (2')

Lab Sample ID: 890-157-5

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		9.92		mg/Kg			02/06/21 00:42	1

Client Sample ID: BH-6 (2')

Lab Sample ID: 890-157-6

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 04:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 04:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 04:20	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 04:20	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 04:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/21 10:16	02/07/21 04:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130	02/06/21 10:16	02/07/21 04:20	1
4-Bromofluorobenzene (Surr)	106		70 - 130	02/06/21 10:16	02/07/21 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 13:14	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 13:14	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 13:14	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	02/06/21 15:20	02/09/21 13:14	1
o-Terphenyl	93		70 - 135	02/06/21 15:20	02/09/21 13:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.2		9.92		mg/Kg			02/06/21 00:59	1

Client Sample ID: BH-7 (2')

Lab Sample ID: 890-157-7

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 04:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 04:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 04:42	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 04:42	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 04:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/06/21 10:16	02/07/21 04:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	02/06/21 10:16	02/07/21 04:42	1
4-Bromofluorobenzene (Surr)	114		70 - 130	02/06/21 10:16	02/07/21 04:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-7 (2')

Lab Sample ID: 890-157-7

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 13:34	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 13:34	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 13:34	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135	02/06/21 15:20	02/09/21 13:34	1
o-Terphenyl	95		70 - 135	02/06/21 15:20	02/09/21 13:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.6		9.92		mg/Kg			02/06/21 01:04	1

Client Sample ID: BH-8 (2')

Lab Sample ID: 890-157-8

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 05:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 05:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 05:05	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 05:05	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 05:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/21 10:16	02/07/21 05:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	98		70 - 130	02/06/21 10:16	02/07/21 05:05	1
4-Bromofluorobenzene (Surr)	105		70 - 130	02/06/21 10:16	02/07/21 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 13:55	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 13:55	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 13:55	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	02/06/21 15:20	02/09/21 13:55	1
o-Terphenyl	95		70 - 135	02/06/21 15:20	02/09/21 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7		9.90		mg/Kg			02/06/21 01:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-9 (2')

Lab Sample ID: 890-157-9

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 05:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 05:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 05:27	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 05:27	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 05:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/21 10:16	02/07/21 05:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 05:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	101		70 - 130	02/06/21 10:16	02/07/21 05:27	1
4-Bromofluorobenzene (Surr)	104		70 - 130	02/06/21 10:16	02/07/21 05:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 14:15	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 14:15	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 14:15	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135	02/06/21 15:20	02/09/21 14:15	1
o-Terphenyl	95		70 - 135	02/06/21 15:20	02/09/21 14:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.6		10.1		mg/Kg			02/06/21 01:16	1

Client Sample ID: BH-10 (2')

Lab Sample ID: 890-157-10

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 05:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 05:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 05:50	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 05:50	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 05:50	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/06/21 10:16	02/07/21 05:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	99		70 - 130	02/06/21 10:16	02/07/21 05:50	1
4-Bromofluorobenzene (Surr)	104		70 - 130	02/06/21 10:16	02/07/21 05:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 14:36	1
Total TPH	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 14:36	1
Over C10-C28	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 14:36	1
>C28-C35	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 14:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-10 (2')

Lab Sample ID: 890-157-10

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	02/06/21 15:20	02/09/21 14:36	1
o-Terphenyl	96		70 - 135	02/06/21 15:20	02/09/21 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.6		10.0		mg/Kg			02/06/21 01:22	1

Client Sample ID: BH-11 (2')

Lab Sample ID: 890-157-11

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 06:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:12	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:12	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/21 10:16	02/07/21 06:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	100		70 - 130				02/06/21 10:16	02/07/21 06:12	1
4-Bromofluorobenzene (Surr)	107		70 - 130				02/06/21 10:16	02/07/21 06:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 14:56	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 14:56	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 14:56	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135				02/06/21 15:20	02/09/21 14:56	1
o-Terphenyl	89		70 - 135				02/06/21 15:20	02/09/21 14:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.9		9.90		mg/Kg			02/06/21 01:27	1

Client Sample ID: BH-12 (2')

Lab Sample ID: 890-157-12

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 06:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:35	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:35	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/06/21 10:16	02/07/21 06:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-12 (2')

Lab Sample ID: 890-157-12

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 06:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130				02/06/21 10:16	02/07/21 06:35	1
4-Bromofluorobenzene (Surr)	105		70 - 130				02/06/21 10:16	02/07/21 06:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 15:17	1
Total TPH	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 15:17	1
Over C10-C28	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 15:17	1
>C28-C35	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135				02/06/21 15:20	02/09/21 15:17	1
o-Terphenyl	92		70 - 135				02/06/21 15:20	02/09/21 15:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.7		10.0		mg/Kg			02/06/21 01:44	1

Client Sample ID: BH-13 (2')

Lab Sample ID: 890-157-13

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 06:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 06:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 06:57	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 06:57	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 06:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/21 10:16	02/07/21 06:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:16	02/07/21 06:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130				02/06/21 10:16	02/07/21 06:57	1
4-Bromofluorobenzene (Surr)	104		70 - 130				02/06/21 10:16	02/07/21 06:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 15:38	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 15:38	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 15:38	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135				02/06/21 15:20	02/09/21 15:38	1
o-Terphenyl	93		70 - 135				02/06/21 15:20	02/09/21 15:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-13 (2')

Lab Sample ID: 890-157-13

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		10.0		mg/Kg			02/06/21 01:50	1

Client Sample ID: BH-14 (5')

Lab Sample ID: 890-157-14

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 07:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 07:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 07:19	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 07:19	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 07:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:16	02/07/21 07:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:16	02/07/21 07:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130	02/06/21 10:16	02/07/21 07:19	1
4-Bromofluorobenzene (Surr)	109		70 - 130	02/06/21 10:16	02/07/21 07:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 15:59	1
Total TPH	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 15:59	1
Over C10-C28	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 15:59	1
>C28-C35	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	02/06/21 15:20	02/09/21 15:59	1
o-Terphenyl	92		70 - 135	02/06/21 15:20	02/09/21 15:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		10.0		mg/Kg			02/06/21 02:07	1

Client Sample ID: BH-15 (5')

Lab Sample ID: 890-157-15

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 07:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 07:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 07:42	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 07:42	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 07:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/21 10:16	02/07/21 07:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130	02/06/21 10:16	02/07/21 07:42	1
4-Bromofluorobenzene (Surr)	105		70 - 130	02/06/21 10:16	02/07/21 07:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-15 (5')

Lab Sample ID: 890-157-15

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 16:20	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 16:20	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 16:20	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 135	02/06/21 15:20	02/09/21 16:20	1
o-Terphenyl	93		70 - 135	02/06/21 15:20	02/09/21 16:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2720		49.8		mg/Kg			02/06/21 02:13	5

Client Sample ID: BH-16 (5')

Lab Sample ID: 890-157-16

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 08:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 08:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 08:27	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 08:27	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 08:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/21 10:16	02/07/21 08:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 08:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	99		70 - 130	02/06/21 10:16	02/07/21 08:27	1
4-Bromofluorobenzene (Surr)	106		70 - 130	02/06/21 10:16	02/07/21 08:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/06/21 15:20	02/09/21 17:02	1
Total TPH	<50.2	U	50.2		mg/Kg		02/06/21 15:20	02/09/21 17:02	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/06/21 15:20	02/09/21 17:02	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/06/21 15:20	02/09/21 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	02/06/21 15:20	02/09/21 17:02	1
o-Terphenyl	94		70 - 135	02/06/21 15:20	02/09/21 17:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.6		9.98		mg/Kg			02/06/21 02:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-17 (5')

Lab Sample ID: 890-157-17

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 08:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 08:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 08:49	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 08:49	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 08:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/06/21 10:16	02/07/21 08:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 08:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	101		70 - 130	02/06/21 10:16	02/07/21 08:49	1
4-Bromofluorobenzene (Surr)	105		70 - 130	02/06/21 10:16	02/07/21 08:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.3	U	50.3		mg/Kg		02/06/21 15:20	02/09/21 17:23	1
Total TPH	<50.3	U	50.3		mg/Kg		02/06/21 15:20	02/09/21 17:23	1
Over C10-C28	<50.3	U	50.3		mg/Kg		02/06/21 15:20	02/09/21 17:23	1
>C28-C35	<50.3	U	50.3		mg/Kg		02/06/21 15:20	02/09/21 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	02/06/21 15:20	02/09/21 17:23	1
o-Terphenyl	95		70 - 135	02/06/21 15:20	02/09/21 17:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.0		9.90		mg/Kg			02/06/21 02:24	1

Client Sample ID: BH- 18 (2')

Lab Sample ID: 890-157-18

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 09:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:12	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:12	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/21 10:16	02/07/21 09:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	97		70 - 130	02/06/21 10:16	02/07/21 09:12	1
4-Bromofluorobenzene (Surr)	108		70 - 130	02/06/21 10:16	02/07/21 09:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 18:22	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 18:22	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 18:22	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:20	02/09/21 18:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH- 18 (2')

Lab Sample ID: 890-157-18

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	02/06/21 15:20	02/09/21 18:22	1
o-Terphenyl	92		70 - 135	02/06/21 15:20	02/09/21 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		10.1		mg/Kg			02/06/21 02:30	1

Client Sample ID: BH-19 (2')

Lab Sample ID: 890-157-19

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 09:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:34	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:34	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/21 10:16	02/07/21 09:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:16	02/07/21 09:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	98		70 - 130				02/06/21 10:16	02/07/21 09:34	1
4-Bromofluorobenzene (Surr)	104		70 - 130				02/06/21 10:16	02/07/21 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 18:42	1
Total TPH	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 18:42	1
Over C10-C28	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 18:42	1
>C28-C35	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135				02/06/21 15:20	02/09/21 18:42	1
o-Terphenyl	95		70 - 135				02/06/21 15:20	02/09/21 18:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.4		9.98		mg/Kg			02/06/21 02:35	1

Client Sample ID: BH- 20 (2')

Lab Sample ID: 890-157-20

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:16	02/07/21 09:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 09:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 09:57	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 09:57	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 09:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/06/21 10:16	02/07/21 09:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH- 20 (2')

Lab Sample ID: 890-157-20

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:16	02/07/21 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	98		70 - 130	02/06/21 10:16	02/07/21 09:57	1
4-Bromofluorobenzene (Surr)	107		70 - 130	02/06/21 10:16	02/07/21 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 19:02	1
Total TPH	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 19:02	1
Over C10-C28	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 19:02	1
>C28-C35	<49.9	U	49.9		mg/Kg		02/06/21 15:20	02/09/21 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	02/06/21 15:20	02/09/21 19:02	1
o-Terphenyl	93		70 - 135	02/06/21 15:20	02/09/21 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		9.94		mg/Kg			02/06/21 02:41	1

Client Sample ID: BH-21 (5')

Lab Sample ID: 890-157-21

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0196	U	0.0196		mg/Kg		02/06/21 10:24	02/08/21 10:11	1
Ethylbenzene	<0.0196	U	0.0196		mg/Kg		02/06/21 10:24	02/08/21 10:11	1
Toluene	<0.0196	U	0.0196		mg/Kg		02/06/21 10:24	02/08/21 10:11	1
Total BTEX	<0.0196	U	0.0196		mg/Kg		02/06/21 10:24	02/08/21 10:11	1
Xylenes, Total	<0.0196	U	0.0196		mg/Kg		02/06/21 10:24	02/08/21 10:11	1
m-Xylene & p-Xylene	<0.0392	U	0.0392		mg/Kg		02/06/21 10:24	02/08/21 10:11	1
o-Xylene	<0.0196	U	0.0196		mg/Kg		02/06/21 10:24	02/08/21 10:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	97		70 - 130	02/06/21 10:24	02/08/21 10:11	1
4-Bromofluorobenzene (Surr)	90		70 - 130	02/06/21 10:24	02/08/21 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/09/21 20:44	1
Total TPH	797		50.3		mg/Kg		02/06/21 15:38	02/09/21 20:44	1
Over C10-C28	698	F1	50.3		mg/Kg		02/06/21 15:38	02/09/21 20:44	1
>C28-C35	99.3		50.3		mg/Kg		02/06/21 15:38	02/09/21 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	02/06/21 15:38	02/09/21 20:44	1
o-Terphenyl	96		70 - 135	02/06/21 15:38	02/09/21 20:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-21 (5')

Lab Sample ID: 890-157-21

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	932		10.0		mg/Kg			02/06/21 03:15	1

Client Sample ID: BH-22 (2')

Lab Sample ID: 890-157-22

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 11:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 11:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 11:06	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 11:06	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 11:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/21 10:24	02/08/21 11:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	02/06/21 10:24	02/08/21 11:06	1
4-Bromofluorobenzene (Surr)	85		70 - 130	02/06/21 10:24	02/08/21 11:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		02/06/21 15:38	02/09/21 22:04	1
Total TPH	<49.9	U	49.9		mg/Kg		02/06/21 15:38	02/09/21 22:04	1
Over C10-C28	<49.9	U	49.9		mg/Kg		02/06/21 15:38	02/09/21 22:04	1
>C28-C35	<49.9	U	49.9		mg/Kg		02/06/21 15:38	02/09/21 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	02/06/21 15:38	02/09/21 22:04	1
o-Terphenyl	90		70 - 135	02/06/21 15:38	02/09/21 22:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		10.0		mg/Kg			02/06/21 03:32	1

Client Sample ID: BH-23 (2')

Lab Sample ID: 890-157-23

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 12:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 12:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 12:14	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 12:14	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 12:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/06/21 10:24	02/08/21 12:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130	02/06/21 10:24	02/08/21 12:14	1
4-Bromofluorobenzene (Surr)	89		70 - 130	02/06/21 10:24	02/08/21 12:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-23 (2')

Lab Sample ID: 890-157-23

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/09/21 22:25	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/09/21 22:25	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/09/21 22:25	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/09/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135	02/06/21 15:38	02/09/21 22:25	1
o-Terphenyl	95		70 - 135	02/06/21 15:38	02/09/21 22:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		10.0		mg/Kg			02/06/21 03:38	1

Client Sample ID: BH- 24 (2')

Lab Sample ID: 890-157-24

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 12:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 12:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 12:36	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 12:36	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 12:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:24	02/08/21 12:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	02/06/21 10:24	02/08/21 12:36	1
4-Bromofluorobenzene (Surr)	90		70 - 130	02/06/21 10:24	02/08/21 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/09/21 22:45	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/09/21 22:45	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/09/21 22:45	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/09/21 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135	02/06/21 15:38	02/09/21 22:45	1
o-Terphenyl	94		70 - 135	02/06/21 15:38	02/09/21 22:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		9.96		mg/Kg			02/06/21 03:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-25 (2')

Lab Sample ID: 890-157-25

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 12:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 12:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 12:59	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 12:59	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 12:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/21 10:24	02/08/21 12:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	108		70 - 130	02/06/21 10:24	02/08/21 12:59	1
4-Bromofluorobenzene (Surr)	91		70 - 130	02/06/21 10:24	02/08/21 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/09/21 23:25	1
Total TPH	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/09/21 23:25	1
Over C10-C28	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/09/21 23:25	1
>C28-C35	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/09/21 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	02/06/21 15:38	02/09/21 23:25	1
o-Terphenyl	93		70 - 135	02/06/21 15:38	02/09/21 23:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		9.98		mg/Kg			02/06/21 03:49	1

Client Sample ID: BH-26 (2')

Lab Sample ID: 890-157-26

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 13:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 13:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 13:44	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 13:44	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 13:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/06/21 10:24	02/08/21 13:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:24	02/08/21 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130	02/06/21 10:24	02/08/21 13:44	1
4-Bromofluorobenzene (Surr)	89		70 - 130	02/06/21 10:24	02/08/21 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/09/21 23:45	1
Total TPH	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/09/21 23:45	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/09/21 23:45	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/09/21 23:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-26 (2')

Lab Sample ID: 890-157-26

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135	02/06/21 15:38	02/09/21 23:45	1
o-Terphenyl	94		70 - 135	02/06/21 15:38	02/09/21 23:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		10.1		mg/Kg			02/06/21 04:06	1

Client Sample ID: BH-27 (2')

Lab Sample ID: 890-157-27

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 14:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:06	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:06	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:24	02/08/21 14:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	108		70 - 130				02/06/21 10:24	02/08/21 14:06	1
4-Bromofluorobenzene (Surr)	88		70 - 130				02/06/21 10:24	02/08/21 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 00:06	1
Total TPH	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 00:06	1
Over C10-C28	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 00:06	1
>C28-C35	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135				02/06/21 15:38	02/10/21 00:06	1
o-Terphenyl	90		70 - 135				02/06/21 15:38	02/10/21 00:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		10.0		mg/Kg			02/06/21 04:12	1

Client Sample ID: BH-28 (2')

Lab Sample ID: 890-157-28

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 14:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:29	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:29	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:24	02/08/21 14:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-28 (2')

Lab Sample ID: 890-157-28

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130				02/06/21 10:24	02/08/21 14:29	1
4-Bromofluorobenzene (Surr)	85		70 - 130				02/06/21 10:24	02/08/21 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 00:26	1
Total TPH	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 00:26	1
Over C10-C28	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 00:26	1
>C28-C35	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135				02/06/21 15:38	02/10/21 00:26	1
o-Terphenyl	94		70 - 135				02/06/21 15:38	02/10/21 00:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		10.0		mg/Kg			02/06/21 04:17	1

Client Sample ID: SW-1 (2')

Lab Sample ID: 890-157-29

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 14:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 14:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 14:51	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 14:51	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 14:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/06/21 10:24	02/08/21 14:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130				02/06/21 10:24	02/08/21 14:51	1
4-Bromofluorobenzene (Surr)	90		70 - 130				02/06/21 10:24	02/08/21 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 00:46	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 00:46	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 00:46	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 135				02/06/21 15:38	02/10/21 00:46	1
o-Terphenyl	99		70 - 135				02/06/21 15:38	02/10/21 00:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-1 (2')

Lab Sample ID: 890-157-29

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.1		10.0		mg/Kg			02/06/21 04:23	1

Client Sample ID: SW-2 (2')

Lab Sample ID: 890-157-30

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 15:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 15:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 15:14	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 15:14	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 15:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:24	02/08/21 15:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:24	02/08/21 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130	02/06/21 10:24	02/08/21 15:14	1
4-Bromofluorobenzene (Surr)	94		70 - 130	02/06/21 10:24	02/08/21 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 01:06	1
Total TPH	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 01:06	1
Over C10-C28	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 01:06	1
>C28-C35	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	02/06/21 15:38	02/10/21 01:06	1
o-Terphenyl	91		70 - 135	02/06/21 15:38	02/10/21 01:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		10.0		mg/Kg			02/06/21 04:29	1

Client Sample ID: SW-3 (2')

Lab Sample ID: 890-157-31

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 15:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 15:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 15:36	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 15:36	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 15:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/06/21 10:24	02/08/21 15:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	109		70 - 130	02/06/21 10:24	02/08/21 15:36	1
4-Bromofluorobenzene (Surr)	93		70 - 130	02/06/21 10:24	02/08/21 15:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-3 (2')

Lab Sample ID: 890-157-31

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 01:26	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 01:26	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 01:26	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135	02/06/21 15:38	02/10/21 01:26	1
o-Terphenyl	95		70 - 135	02/06/21 15:38	02/10/21 01:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.0		9.94		mg/Kg			02/06/21 04:34	1

Client Sample ID: SW-4 (2')

Lab Sample ID: 890-157-32

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 15:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 15:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 15:58	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 15:58	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 15:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/21 10:24	02/08/21 15:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130	02/06/21 10:24	02/08/21 15:58	1
4-Bromofluorobenzene (Surr)	92		70 - 130	02/06/21 10:24	02/08/21 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 01:46	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 01:46	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 01:46	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	02/06/21 15:38	02/10/21 01:46	1
o-Terphenyl	97		70 - 135	02/06/21 15:38	02/10/21 01:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.2		9.94		mg/Kg			02/06/21 04:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-5 (5')

Lab Sample ID: 890-157-33

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 16:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 16:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 16:21	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 16:21	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 16:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/21 10:24	02/08/21 16:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130	02/06/21 10:24	02/08/21 16:21	1
4-Bromofluorobenzene (Surr)	86		70 - 130	02/06/21 10:24	02/08/21 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 02:07	1
Total TPH	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 02:07	1
Over C10-C28	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 02:07	1
>C28-C35	<50.1	U	50.1		mg/Kg		02/06/21 15:38	02/10/21 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	02/06/21 15:38	02/10/21 02:07	1
o-Terphenyl	98		70 - 135	02/06/21 15:38	02/10/21 02:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.3		9.96		mg/Kg			02/06/21 04:57	1

Client Sample ID: SW-6 (5')

Lab Sample ID: 890-157-34

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 16:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 16:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 16:43	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 16:43	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 16:43	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/21 10:24	02/08/21 16:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130	02/06/21 10:24	02/08/21 16:43	1
4-Bromofluorobenzene (Surr)	89		70 - 130	02/06/21 10:24	02/08/21 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/10/21 02:27	1
Total TPH	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/10/21 02:27	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/10/21 02:27	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/10/21 02:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-6 (5')

Lab Sample ID: 890-157-34

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	02/06/21 15:38	02/10/21 02:27	1
o-Terphenyl	93		70 - 135	02/06/21 15:38	02/10/21 02:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		9.92		mg/Kg			02/06/21 05:14	1

Client Sample ID: SW-7 (5')

Lab Sample ID: 890-157-35

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 17:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 17:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 17:06	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 17:06	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 17:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/21 10:24	02/08/21 17:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130	02/06/21 10:24	02/08/21 17:06	1
4-Bromofluorobenzene (Surr)	89		70 - 130	02/06/21 10:24	02/08/21 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 03:07	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 03:07	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 03:07	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	02/06/21 15:38	02/10/21 03:07	1
o-Terphenyl	96		70 - 135	02/06/21 15:38	02/10/21 03:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		9.98		mg/Kg			02/06/21 05:20	1

Client Sample ID: SW-8 (5')

Lab Sample ID: 890-157-36

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 17:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 17:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 17:51	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 17:51	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 17:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/21 10:24	02/08/21 17:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-8 (5')

Lab Sample ID: 890-157-36

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	107		70 - 130				02/06/21 10:24	02/08/21 17:51	1
4-Bromofluorobenzene (Surr)	92		70 - 130				02/06/21 10:24	02/08/21 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 03:27	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 03:27	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 03:27	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/10/21 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135				02/06/21 15:38	02/10/21 03:27	1
o-Terphenyl	96		70 - 135				02/06/21 15:38	02/10/21 03:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.5		10.1		mg/Kg			02/06/21 05:26	1

Client Sample ID: SW-9 (2')

Lab Sample ID: 890-157-37

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 18:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 18:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 18:13	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 18:13	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 18:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/21 10:24	02/08/21 18:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:24	02/08/21 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130				02/06/21 10:24	02/08/21 18:13	1
4-Bromofluorobenzene (Surr)	90		70 - 130				02/06/21 10:24	02/08/21 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 03:47	1
Total TPH	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 03:47	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 03:47	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/06/21 15:38	02/10/21 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 135				02/06/21 15:38	02/10/21 03:47	1
o-Terphenyl	91		70 - 135				02/06/21 15:38	02/10/21 03:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-9 (2')

Lab Sample ID: 890-157-37

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.9		9.90		mg/Kg			02/06/21 05:31	1

Client Sample ID: SW-10 (2')

Lab Sample ID: 890-157-38

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 18:36	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 18:36	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 18:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/21 10:24	02/08/21 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	02/06/21 10:24	02/08/21 18:36	1
4-Bromofluorobenzene (Surr)	90		70 - 130	02/06/21 10:24	02/08/21 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/10/21 04:07	1
Total TPH	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/10/21 04:07	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/10/21 04:07	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/06/21 15:38	02/10/21 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135	02/06/21 15:38	02/10/21 04:07	1
o-Terphenyl	96		70 - 135	02/06/21 15:38	02/10/21 04:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.8		9.96		mg/Kg			02/06/21 05:37	1

Client Sample ID: SW-11 (2')

Lab Sample ID: 890-157-39

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 18:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:24	02/08/21 18:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:24	02/08/21 18:58	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		02/06/21 10:24	02/08/21 18:58	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		02/06/21 10:24	02/08/21 18:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/21 10:24	02/08/21 18:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:24	02/08/21 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130	02/06/21 10:24	02/08/21 18:58	1
4-Bromofluorobenzene (Surr)	90		70 - 130	02/06/21 10:24	02/08/21 18:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-11 (2')

Lab Sample ID: 890-157-39

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		02/06/21 15:38	02/10/21 04:28	1
Total TPH	<49.9	U	49.9		mg/Kg		02/06/21 15:38	02/10/21 04:28	1
Over C10-C28	<49.9	U	49.9		mg/Kg		02/06/21 15:38	02/10/21 04:28	1
>C28-C35	<49.9	U	49.9		mg/Kg		02/06/21 15:38	02/10/21 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135	02/06/21 15:38	02/10/21 04:28	1
o-Terphenyl	96		70 - 135	02/06/21 15:38	02/10/21 04:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		9.90		mg/Kg			02/06/21 05:43	1

Client Sample ID: SW-12 (2')

Lab Sample ID: 890-157-40

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:24	02/08/21 19:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 19:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 19:21	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 19:21	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 19:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/21 10:24	02/08/21 19:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	109		70 - 130	02/06/21 10:24	02/08/21 19:21	1
4-Bromofluorobenzene (Surr)	93		70 - 130	02/06/21 10:24	02/08/21 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/10/21 04:48	1
Total TPH	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/10/21 04:48	1
Over C10-C28	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/10/21 04:48	1
>C28-C35	<50.3	U	50.3		mg/Kg		02/06/21 15:38	02/10/21 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135	02/06/21 15:38	02/10/21 04:48	1
o-Terphenyl	95		70 - 135	02/06/21 15:38	02/10/21 04:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		10.1		mg/Kg			02/06/21 05:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW- 13 (5')

Lab Sample ID: 890-157-41

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/06/21 20:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/06/21 20:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/06/21 20:32	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/06/21 20:32	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/06/21 20:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/21 10:38	02/06/21 20:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/06/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	02/06/21 10:38	02/06/21 20:32	1
4-Bromofluorobenzene (Surr)	94		70 - 130	02/06/21 10:38	02/06/21 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 07:30	1
Total TPH	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 07:30	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 07:30	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 07:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135	02/09/21 18:09	02/10/21 07:30	1
o-Terphenyl	89		70 - 135	02/09/21 18:09	02/10/21 07:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		10.0		mg/Kg			02/06/21 06:23	1

Client Sample ID: SW-14 (5')

Lab Sample ID: 890-157-42

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/06/21 21:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 21:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 21:39	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 21:39	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 21:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:38	02/06/21 21:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	02/06/21 10:38	02/06/21 21:39	1
4-Bromofluorobenzene (Surr)	96		70 - 130	02/06/21 10:38	02/06/21 21:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.3	U	50.3		mg/Kg		02/09/21 18:09	02/10/21 08:31	1
Total TPH	<50.3	U	50.3		mg/Kg		02/09/21 18:09	02/10/21 08:31	1
Over C10-C28	<50.3	U	50.3		mg/Kg		02/09/21 18:09	02/10/21 08:31	1
>C28-C35	<50.3	U	50.3		mg/Kg		02/09/21 18:09	02/10/21 08:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-14 (5')

Lab Sample ID: 890-157-42

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135	02/09/21 18:09	02/10/21 08:31	1
o-Terphenyl	92		70 - 135	02/09/21 18:09	02/10/21 08:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		200		mg/Kg			02/10/21 03:26	20

Client Sample ID: SW-15 (5')

Lab Sample ID: 890-157-43

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/06/21 22:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:02	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:02	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:38	02/06/21 22:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130				02/06/21 10:38	02/06/21 22:02	1
4-Bromofluorobenzene (Surr)	94		70 - 130				02/06/21 10:38	02/06/21 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/09/21 18:09	02/10/21 08:51	1
Total TPH	<50.0	U	50.0		mg/Kg		02/09/21 18:09	02/10/21 08:51	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/09/21 18:09	02/10/21 08:51	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/09/21 18:09	02/10/21 08:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 135				02/09/21 18:09	02/10/21 08:51	1
o-Terphenyl	102		70 - 135				02/09/21 18:09	02/10/21 08:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.8		10.1		mg/Kg			02/06/21 06:45	1

Client Sample ID: SW-16 (5')

Lab Sample ID: 890-157-44

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/06/21 22:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/06/21 22:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/06/21 22:24	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/06/21 22:24	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/06/21 22:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/06/21 10:38	02/06/21 22:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-16 (5')

Lab Sample ID: 890-157-44

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/06/21 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130				02/06/21 10:38	02/06/21 22:24	1
4-Bromofluorobenzene (Surr)	95		70 - 130				02/06/21 10:38	02/06/21 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.1	U	50.1		mg/Kg		02/09/21 18:09	02/10/21 09:12	1
Total TPH	<50.1	U	50.1		mg/Kg		02/09/21 18:09	02/10/21 09:12	1
Over C10-C28	<50.1	U	50.1		mg/Kg		02/09/21 18:09	02/10/21 09:12	1
>C28-C35	<50.1	U	50.1		mg/Kg		02/09/21 18:09	02/10/21 09:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135				02/09/21 18:09	02/10/21 09:12	1
o-Terphenyl	103		70 - 135				02/09/21 18:09	02/10/21 09:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		10.1		mg/Kg			02/06/21 06:51	1

Client Sample ID: SW- 17 (2')

Lab Sample ID: 890-157-45

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/06/21 22:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:47	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:47	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:38	02/06/21 22:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130				02/06/21 10:38	02/06/21 22:47	1
4-Bromofluorobenzene (Surr)	97		70 - 130				02/06/21 10:38	02/06/21 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 09:32	1
Total TPH	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 09:32	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 09:32	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 09:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135				02/09/21 18:09	02/10/21 09:32	1
o-Terphenyl	101		70 - 135				02/09/21 18:09	02/10/21 09:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW- 17 (2')

Lab Sample ID: 890-157-45

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.4		10.0		mg/Kg			02/06/21 06:57	1

Client Sample ID: SW-18 (2')

Lab Sample ID: 890-157-46

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/06/21 23:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 23:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 23:31	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 23:31	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 23:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:38	02/06/21 23:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/06/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	02/06/21 10:38	02/06/21 23:31	1
4-Bromofluorobenzene (Surr)	93		70 - 130	02/06/21 10:38	02/06/21 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 10:13	1
Total TPH	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 10:13	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 10:13	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 10:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135	02/09/21 18:09	02/10/21 10:13	1
o-Terphenyl	103		70 - 135	02/09/21 18:09	02/10/21 10:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.2		10.0		mg/Kg			02/06/21 07:14	1

Client Sample ID: SW-19 (2')

Lab Sample ID: 890-157-47

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/08/21 11:42	02/08/21 21:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/08/21 11:42	02/08/21 21:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/08/21 11:42	02/08/21 21:13	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		02/08/21 11:42	02/08/21 21:13	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		02/08/21 11:42	02/08/21 21:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/08/21 11:42	02/08/21 21:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/08/21 11:42	02/08/21 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130	02/08/21 11:42	02/08/21 21:13	1
4-Bromofluorobenzene (Surr)	84		70 - 130	02/08/21 11:42	02/08/21 21:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-19 (2')

Lab Sample ID: 890-157-47

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 10:34	1
Total TPH	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 10:34	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 10:34	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 10:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 135	02/09/21 18:09	02/10/21 10:34	1
o-Terphenyl	98		70 - 135	02/09/21 18:09	02/10/21 10:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.0		9.92		mg/Kg			02/06/21 07:19	1

Client Sample ID: SW-20 (2')

Lab Sample ID: 890-157-48

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/07/21 00:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:16	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:16	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:38	02/07/21 00:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	02/06/21 10:38	02/07/21 00:16	1
4-Bromofluorobenzene (Surr)	92		70 - 130	02/06/21 10:38	02/07/21 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 10:54	1
Total TPH	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 10:54	1
Over C10-C28	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 10:54	1
>C28-C35	<49.8	U	49.8		mg/Kg		02/09/21 18:09	02/10/21 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 135	02/09/21 18:09	02/10/21 10:54	1
o-Terphenyl	99		70 - 135	02/09/21 18:09	02/10/21 10:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.8		9.92		mg/Kg			02/06/21 07:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-21 (2')

Lab Sample ID: 890-157-49

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/07/21 00:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:39	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:39	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/21 10:38	02/07/21 00:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/21 10:38	02/07/21 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130	02/06/21 10:38	02/07/21 00:39	1
4-Bromofluorobenzene (Surr)	92		70 - 130	02/06/21 10:38	02/07/21 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9		mg/Kg		02/09/21 18:09	02/10/21 11:15	1
Total TPH	<49.9	U	49.9		mg/Kg		02/09/21 18:09	02/10/21 11:15	1
Over C10-C28	<49.9	U	49.9		mg/Kg		02/09/21 18:09	02/10/21 11:15	1
>C28-C35	<49.9	U	49.9		mg/Kg		02/09/21 18:09	02/10/21 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135	02/09/21 18:09	02/10/21 11:15	1
o-Terphenyl	102		70 - 135	02/09/21 18:09	02/10/21 11:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.4		9.90		mg/Kg			02/06/21 07:31	1

Client Sample ID: SW-22 (2')

Lab Sample ID: 890-157-50

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/07/21 01:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:01	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:01	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/21 10:38	02/07/21 01:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130	02/06/21 10:38	02/07/21 01:01	1
4-Bromofluorobenzene (Surr)	94		70 - 130	02/06/21 10:38	02/07/21 01:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 11:35	1
Total TPH	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 11:35	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 11:35	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 11:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-22 (2')

Lab Sample ID: 890-157-50

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 135	02/09/21 18:09	02/10/21 11:35	1
o-Terphenyl	103		70 - 135	02/09/21 18:09	02/10/21 11:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.4		10.1		mg/Kg			02/06/21 07:36	1

Client Sample ID: SW-23 (2')

Lab Sample ID: 890-157-51

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/07/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:24	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:24	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/21 10:38	02/07/21 01:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	104		70 - 130				02/06/21 10:38	02/07/21 01:24	1
4-Bromofluorobenzene (Surr)	96		70 - 130				02/06/21 10:38	02/07/21 01:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.1	U	50.1		mg/Kg		02/09/21 18:09	02/10/21 11:56	1
Total TPH	<50.1	U	50.1		mg/Kg		02/09/21 18:09	02/10/21 11:56	1
Over C10-C28	<50.1	U	50.1		mg/Kg		02/09/21 18:09	02/10/21 11:56	1
>C28-C35	<50.1	U	50.1		mg/Kg		02/09/21 18:09	02/10/21 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 135				02/09/21 18:09	02/10/21 11:56	1
o-Terphenyl	107		70 - 135				02/09/21 18:09	02/10/21 11:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		9.96		mg/Kg			02/06/21 07:42	1

Client Sample ID: SW-24 (2')

Lab Sample ID: 890-157-52

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/07/21 01:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/07/21 01:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/07/21 01:46	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/07/21 01:46	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/07/21 01:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/21 10:38	02/07/21 01:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-24 (2')

Lab Sample ID: 890-157-52

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/21 10:38	02/07/21 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130				02/06/21 10:38	02/07/21 01:46	1
4-Bromofluorobenzene (Surr)	97		70 - 130				02/06/21 10:38	02/07/21 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:16	1
Total TPH	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:16	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:16	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 135				02/09/21 18:09	02/10/21 12:16	1
o-Terphenyl	106		70 - 135				02/09/21 18:09	02/10/21 12:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.8		10.0		mg/Kg			02/06/21 07:59	1

Client Sample ID: SW-25 (5')

Lab Sample ID: 890-157-53

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/07/21 02:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 02:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 02:08	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 02:08	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 02:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/21 10:38	02/07/21 02:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/07/21 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	96		70 - 130				02/06/21 10:38	02/07/21 02:08	1
4-Bromofluorobenzene (Surr)	96		70 - 130				02/06/21 10:38	02/07/21 02:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:37	1
Total TPH	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:37	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:37	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135				02/09/21 18:09	02/10/21 12:37	1
o-Terphenyl	101		70 - 135				02/09/21 18:09	02/10/21 12:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-25 (5')

Lab Sample ID: 890-157-53

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		10.1		mg/Kg			02/06/21 08:05	1

Client Sample ID: SW-26 (5')

Lab Sample ID: 890-157-54

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

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		02/06/21 10:38	02/07/21 02:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/07/21 02:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/07/21 02:31	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/07/21 02:31	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/07/21 02:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/21 10:38	02/07/21 02:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/21 10:38	02/07/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130				02/06/21 10:38	02/07/21 02:31	1
4-Bromofluorobenzene (Surr)	93		70 - 130				02/06/21 10:38	02/07/21 02:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:57	1
Total TPH	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:57	1
Over C10-C28	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:57	1
>C28-C35	<50.2	U	50.2		mg/Kg		02/09/21 18:09	02/10/21 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 135				02/09/21 18:09	02/10/21 12:57	1
o-Terphenyl	101		70 - 135				02/09/21 18:09	02/10/21 12:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.7		9.90		mg/Kg			02/06/21 08:22	1

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Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-1 (2')

Lab Sample ID: 890-157-1

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00199	U	mg/Kg	10.000	0.00199	8021B	Total/NA
Total BTEX	<0.00199	U	mg/Kg	50.000	0.00199	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	10.2		mg/Kg	10000	9.94	300.0	Soluble

Client Sample ID: BH-2 (2')

Lab Sample ID: 890-157-2

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<50.1	U	mg/Kg	2500.0	50.1	8015B NM	Total/NA
Chloride	11.9		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: BH-3 (2')

Lab Sample ID: 890-157-3

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	11.4		mg/Kg	10000	9.96	300.0	Soluble

Client Sample ID: BH-4 (2')

Lab Sample ID: 890-157-4

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	10.8		mg/Kg	10000	9.90	300.0	Soluble

Client Sample ID: BH-5 (2')

Lab Sample ID: 890-157-5

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00199	U	mg/Kg	10.000	0.00199	8021B	Total/NA
Total BTEX	<0.00199	U	mg/Kg	50.000	0.00199	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	12.4		mg/Kg	10000	9.92	300.0	Soluble

Client Sample ID: BH-6 (2')

Lab Sample ID: 890-157-6

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA

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Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-6 (2') (Continued)

Lab Sample ID: 890-157-6

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	21.2		mg/Kg	10000	9.92	300.0	Soluble

Client Sample ID: BH-7 (2')

Lab Sample ID: 890-157-7

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	18.6		mg/Kg	10000	9.92	300.0	Soluble

Client Sample ID: BH-8 (2')

Lab Sample ID: 890-157-8

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	22.7		mg/Kg	10000	9.90	300.0	Soluble

Client Sample ID: BH-9 (2')

Lab Sample ID: 890-157-9

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00199	U	mg/Kg	10.000	0.00199	8021B	Total/NA
Total BTEX	<0.00199	U	mg/Kg	50.000	0.00199	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	19.6		mg/Kg	10000	10.1	300.0	Soluble

Client Sample ID: BH-10 (2')

Lab Sample ID: 890-157-10

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00198	U	mg/Kg	10.000	0.00198	8021B	Total/NA
Total BTEX	<0.00198	U	mg/Kg	50.000	0.00198	8021B	Total/NA
Total TPH	<49.9	U	mg/Kg	2500.0	49.9	8015B NM	Total/NA
Chloride	22.6		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: BH-11 (2')

Lab Sample ID: 890-157-11

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	13.9		mg/Kg	10000	9.90	300.0	Soluble

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Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-12 (2')

Lab Sample ID: 890-157-12

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<49.9	U	mg/Kg	2500.0	49.9	8015B NM	Total/NA
Chloride	17.7		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: BH-13 (2')

Lab Sample ID: 890-157-13

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00199	U	mg/Kg	10.000	0.00199	8021B	Total/NA
Total BTEX	<0.00199	U	mg/Kg	50.000	0.00199	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	17.6		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: BH-14 (5')

Lab Sample ID: 890-157-14

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<49.9	U	mg/Kg	2500.0	49.9	8015B NM	Total/NA
Chloride	12.5		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: BH-15 (5')

Lab Sample ID: 890-157-15

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	2720		mg/Kg	10000	49.8	300.0	Soluble

Client Sample ID: BH-16 (5')

Lab Sample ID: 890-157-16

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	14.6		mg/Kg	10000	9.98	300.0	Soluble

Client Sample ID: BH-17 (5')

Lab Sample ID: 890-157-17

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA

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Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-17 (5') (Continued)

Lab Sample ID: 890-157-17

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Total TPH	<50.3	U	mg/Kg	2500.0	50.3	8015B NM	Total/NA
Chloride	13.0		mg/Kg	10000	9.90	300.0	Soluble

Client Sample ID: BH- 18 (2')

Lab Sample ID: 890-157-18

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	12.8		mg/Kg	10000	10.1	300.0	Soluble

Client Sample ID: BH-19 (2')

Lab Sample ID: 890-157-19

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<49.9	U	mg/Kg	2500.0	49.9	8015B NM	Total/NA
Chloride	14.4		mg/Kg	10000	9.98	300.0	Soluble

Client Sample ID: BH- 20 (2')

Lab Sample ID: 890-157-20

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<49.9	U	mg/Kg	2500.0	49.9	8015B NM	Total/NA
Chloride	12.4		mg/Kg	10000	9.94	300.0	Soluble

Client Sample ID: BH-21 (5')

Lab Sample ID: 890-157-21

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.0196	U	mg/Kg	10.000	0.0196	8021B	Total/NA
Total BTEX	<0.0196	U	mg/Kg	50.000	0.0196	8021B	Total/NA
Total TPH	797		mg/Kg	2500.0	50.3	8015B NM	Total/NA
Chloride	932		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: BH-22 (2')

Lab Sample ID: 890-157-22

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<49.9	U	mg/Kg	2500.0	49.9	8015B NM	Total/NA
Chloride	155		mg/Kg	10000	10.0	300.0	Soluble

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Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-23 (2')

Lab Sample ID: 890-157-23

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00198	U	mg/Kg	10.000	0.00198	8021B	Total/NA
Total BTEX	<0.00198	U	mg/Kg	50.000	0.00198	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	157		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: BH- 24 (2')

Lab Sample ID: 890-157-24

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	19.1		mg/Kg	10000	9.96	300.0	Soluble

Client Sample ID: BH-25 (2')

Lab Sample ID: 890-157-25

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<50.3	U	mg/Kg	2500.0	50.3	8015B NM	Total/NA
Chloride	18.5		mg/Kg	10000	9.98	300.0	Soluble

Client Sample ID: BH-26 (2')

Lab Sample ID: 890-157-26

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00198	U	mg/Kg	10.000	0.00198	8021B	Total/NA
Total BTEX	<0.00198	U	mg/Kg	50.000	0.00198	8021B	Total/NA
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	17.5		mg/Kg	10000	10.1	300.0	Soluble

Client Sample ID: BH-27 (2')

Lab Sample ID: 890-157-27

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<50.1	U	mg/Kg	2500.0	50.1	8015B NM	Total/NA
Chloride	13.5		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: BH-28 (2')

Lab Sample ID: 890-157-28

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA

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Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-28 (2') (Continued)

Lab Sample ID: 890-157-28

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Total TPH	<50.1	U	mg/Kg	2500.0	50.1	8015B NM	Total/NA
Chloride	10.8		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: SW-1 (2')

Lab Sample ID: 890-157-29

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	21.1		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: SW-2 (2')

Lab Sample ID: 890-157-30

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<50.1	U	mg/Kg	2500.0	50.1	8015B NM	Total/NA
Chloride	17.5		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: SW-3 (2')

Lab Sample ID: 890-157-31

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	17.0		mg/Kg	10000	9.94	300.0	Soluble

Client Sample ID: SW-4 (2')

Lab Sample ID: 890-157-32

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	23.2		mg/Kg	10000	9.94	300.0	Soluble

Client Sample ID: SW-5 (5')

Lab Sample ID: 890-157-33

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<50.1	U	mg/Kg	2500.0	50.1	8015B NM	Total/NA
Chloride	14.3		mg/Kg	10000	9.96	300.0	Soluble

Eurofins Xenco, Carlsbad

Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-6 (5')

Lab Sample ID: 890-157-34

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	12.4		mg/Kg	10000	9.92	300.0	Soluble

Client Sample ID: SW-7 (5')

Lab Sample ID: 890-157-35

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	12.5		mg/Kg	10000	9.98	300.0	Soluble

Client Sample ID: SW-8 (5')

Lab Sample ID: 890-157-36

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	14.5		mg/Kg	10000	10.1	300.0	Soluble

Client Sample ID: SW-9 (2')

Lab Sample ID: 890-157-37

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	13.9		mg/Kg	10000	9.90	300.0	Soluble

Client Sample ID: SW-10 (2')

Lab Sample ID: 890-157-38

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	15.8		mg/Kg	10000	9.96	300.0	Soluble

Client Sample ID: SW-11 (2')

Lab Sample ID: 890-157-39

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00199	U	mg/Kg	10.000	0.00199	8021B	Total/NA
Total BTEX	<0.00199	U	mg/Kg	50.000	0.00199	8021B	Total/NA

Eurofins Xenco, Carlsbad

Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-11 (2') (Continued)

Lab Sample ID: 890-157-39

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Total TPH	<49.9	U	mg/Kg	2500.0	49.9	8015B NM	Total/NA
Chloride	18.0		mg/Kg	10000	9.90	300.0	Soluble

Client Sample ID: SW-12 (2')

Lab Sample ID: 890-157-40

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<50.3	U	mg/Kg	2500.0	50.3	8015B NM	Total/NA
Chloride	18.1		mg/Kg	10000	10.1	300.0	Soluble

Client Sample ID: SW- 13 (5')

Lab Sample ID: 890-157-41

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00199	U	mg/Kg	10.000	0.00199	8021B	Total/NA
Total BTEX	<0.00199	U	mg/Kg	50.000	0.00199	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	13.3		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: SW-14 (5')

Lab Sample ID: 890-157-42

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<50.3	U	mg/Kg	2500.0	50.3	8015B NM	Total/NA
Chloride	1320		mg/Kg	10000	200	300.0	Soluble

Client Sample ID: SW-15 (5')

Lab Sample ID: 890-157-43

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<50.0	U	mg/Kg	2500.0	50.0	8015B NM	Total/NA
Chloride	80.8		mg/Kg	10000	10.1	300.0	Soluble

Client Sample ID: SW-16 (5')

Lab Sample ID: 890-157-44

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<50.1	U	mg/Kg	2500.0	50.1	8015B NM	Total/NA
Chloride	16.3		mg/Kg	10000	10.1	300.0	Soluble

Eurofins Xenco, Carlsbad

Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW- 17 (2')

Lab Sample ID: 890-157-45

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	59.4		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: SW-18 (2')

Lab Sample ID: 890-157-46

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	92.2		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: SW-19 (2')

Lab Sample ID: 890-157-47

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00198	U	mg/Kg	10.000	0.00198	8021B	Total/NA
Total BTEX	<0.00198	U	mg/Kg	50.000	0.00198	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	81.0		mg/Kg	10000	9.92	300.0	Soluble

Client Sample ID: SW-20 (2')

Lab Sample ID: 890-157-48

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<49.8	U	mg/Kg	2500.0	49.8	8015B NM	Total/NA
Chloride	58.8		mg/Kg	10000	9.92	300.0	Soluble

Client Sample ID: SW-21 (2')

Lab Sample ID: 890-157-49

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00201	U	mg/Kg	10.000	0.00201	8021B	Total/NA
Total BTEX	<0.00201	U	mg/Kg	50.000	0.00201	8021B	Total/NA
Total TPH	<49.9	U	mg/Kg	2500.0	49.9	8015B NM	Total/NA
Chloride	15.4		mg/Kg	10000	9.90	300.0	Soluble

Client Sample ID: SW-22 (2')

Lab Sample ID: 890-157-50

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA

Eurofins Xenco, Carlsbad

Action Limit Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-22 (2') (Continued)

Lab Sample ID: 890-157-50

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	27.4		mg/Kg	10000	10.1	300.0	Soluble

Client Sample ID: SW-23 (2')

Lab Sample ID: 890-157-51

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<50.1	U	mg/Kg	2500.0	50.1	8015B NM	Total/NA
Chloride	17.8		mg/Kg	10000	9.96	300.0	Soluble

Client Sample ID: SW-24 (2')

Lab Sample ID: 890-157-52

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00202	U	mg/Kg	10.000	0.00202	8021B	Total/NA
Total BTEX	<0.00202	U	mg/Kg	50.000	0.00202	8021B	Total/NA
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	20.8		mg/Kg	10000	10.0	300.0	Soluble

Client Sample ID: SW-25 (5')

Lab Sample ID: 890-157-53

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00200	U	mg/Kg	10.000	0.00200	8021B	Total/NA
Total BTEX	<0.00200	U	mg/Kg	50.000	0.00200	8021B	Total/NA
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	17.8		mg/Kg	10000	10.1	300.0	Soluble

Client Sample ID: SW-26 (5')

Lab Sample ID: 890-157-54

100 - NM NMOCD 51 ft - 100 ft

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Benzene	<0.00199	U	mg/Kg	10.000	0.00199	8021B	Total/NA
Total BTEX	<0.00199	U	mg/Kg	50.000	0.00199	8021B	Total/NA
Total TPH	<50.2	U	mg/Kg	2500.0	50.2	8015B NM	Total/NA
Chloride	15.7		mg/Kg	10000	9.90	300.0	Soluble

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DFBZ1 (70-130)	BFB1 (70-130)
890-157-1	BH-1 (2')	99	102
890-157-1 MS	BH-1 (2')	95	97
890-157-1 MSD	BH-1 (2')	100	96
890-157-2	BH-2 (2')	103	106
890-157-3	BH-3 (2')	101	107
890-157-4	BH-4 (2')	102	109
890-157-5	BH-5 (2')	100	109
890-157-6	BH-6 (2')	103	106
890-157-7	BH-7 (2')	105	114
890-157-8	BH-8 (2')	98	105
890-157-9	BH-9 (2')	101	104
890-157-10	BH-10 (2')	99	104
890-157-11	BH-11 (2')	100	107
890-157-12	BH-12 (2')	102	105
890-157-13	BH-13 (2')	103	104
890-157-14	BH-14 (5')	102	109
890-157-15	BH-15 (5')	102	105
890-157-16	BH-16 (5')	99	106
890-157-17	BH-17 (5')	101	105
890-157-18	BH- 18 (2')	97	108
890-157-19	BH-19 (2')	98	104
890-157-20	BH- 20 (2')	98	107
890-157-21	BH-21 (5')	97	90
890-157-22	BH-22 (2')	104	85
890-157-22 MS	BH-22 (2')	100	86
890-157-22 MSD	BH-22 (2')	100	87
890-157-23	BH-23 (2')	107	89
890-157-24	BH- 24 (2')	105	90
890-157-25	BH-25 (2')	108	91
890-157-26	BH-26 (2')	106	89
890-157-27	BH-27 (2')	108	88
890-157-28	BH-28 (2')	107	85
890-157-29	SW-1 (2')	106	90
890-157-30	SW-2 (2')	107	94
890-157-31	SW-3 (2')	109	93
890-157-32	SW-4 (2')	107	92
890-157-33	SW-5 (5')	106	86
890-157-34	SW-6 (5')	106	89
890-157-35	SW-7 (5')	102	89
890-157-36	SW-8 (5')	107	92
890-157-37	SW-9 (2')	106	90
890-157-38	SW-10 (2')	105	90
890-157-39	SW-11 (2')	106	90
890-157-40	SW-12 (2')	109	93
890-157-41	SW- 13 (5')	104	94
890-157-41 MS	SW- 13 (5')	98	86
890-157-41 MSD	SW- 13 (5')	99	89
890-157-42	SW-14 (5')	105	96
890-157-43	SW-15 (5')	105	94

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DFBZ1 (70-130)	BFB1 (70-130)
890-157-44	SW-16 (5')	104	95
890-157-45	SW- 17 (2')	104	97
890-157-46	SW-18 (2')	104	93
890-157-47	SW-19 (2')	104	84
890-157-47 MS	SW-19 (2')	101	84
890-157-47 MSD	SW-19 (2')	100	83
890-157-48	SW-20 (2')	105	92
890-157-49	SW-21 (2')	106	92
890-157-50	SW-22 (2')	106	94
890-157-51	SW-23 (2')	104	96
890-157-52	SW-24 (2')	103	97
890-157-53	SW-25 (5')	96	96
890-157-54	SW-26 (5')	103	93
LCS 890-175/2-A	Lab Control Sample	96	94
LCS 890-176/2-A	Lab Control Sample	97	85
LCS 890-177/2-A	Lab Control Sample	99	88
LCS 890-191/2-A	Lab Control Sample	103	83
LCSD 890-175/3-A	Lab Control Sample Dup	94	91
LCSD 890-176/3-A	Lab Control Sample Dup	98	85
LCSD 890-177/3-A	Lab Control Sample Dup	99	87
LCSD 890-191/3-A	Lab Control Sample Dup	103	86
MB 890-175/1-A	Method Blank	102	106
MB 890-176/1-A	Method Blank	105	88
MB 890-177/1-A	Method Blank	105	93
MB 890-191/1-A	Method Blank	105	89

Surrogate Legend

DFBZ = 1,4-Difluorobenzene

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
890-157-1	BH-1 (2')	87	84
890-157-1 MS	BH-1 (2')	106	95
890-157-1 MSD	BH-1 (2')	112	101
890-157-2	BH-2 (2')	98	95
890-157-3	BH-3 (2')	95	91
890-157-4	BH-4 (2')	94	89
890-157-5	BH-5 (2')	101	97
890-157-6	BH-6 (2')	97	93
890-157-7	BH-7 (2')	99	95
890-157-8	BH-8 (2')	98	95
890-157-9	BH-9 (2')	99	95
890-157-10	BH-10 (2')	101	96
890-157-11	BH-11 (2')	92	89
890-157-12	BH-12 (2')	95	92
890-157-13	BH-13 (2')	97	93

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
890-157-14	BH-14 (5')	95	92
890-157-15	BH-15 (5')	96	93
890-157-16	BH-16 (5')	98	94
890-157-17	BH-17 (5')	98	95
890-157-18	BH- 18 (2')	95	92
890-157-19	BH-19 (2')	99	95
890-157-20	BH- 20 (2')	95	93
890-157-21	BH-21 (5')	98	96
890-157-21 MS	BH-21 (5')	109	96
890-157-21 MSD	BH-21 (5')	108	99
890-157-22	BH-22 (2')	95	90
890-157-23	BH-23 (2')	100	95
890-157-24	BH- 24 (2')	99	94
890-157-25	BH-25 (2')	97	93
890-157-26	BH-26 (2')	98	94
890-157-27	BH-27 (2')	93	90
890-157-28	BH-28 (2')	99	94
890-157-29	SW-1 (2')	103	99
890-157-30	SW-2 (2')	95	91
890-157-31	SW-3 (2')	99	95
890-157-32	SW-4 (2')	101	97
890-157-33	SW-5 (5')	101	98
890-157-34	SW-6 (5')	97	93
890-157-35	SW-7 (5')	101	96
890-157-36	SW-8 (5')	99	96
890-157-37	SW-9 (2')	94	91
890-157-38	SW-10 (2')	100	96
890-157-39	SW-11 (2')	100	96
890-157-40	SW-12 (2')	99	95
890-157-41	SW- 13 (5')	92	89
890-157-41 MS	SW- 13 (5')	112	100
890-157-41 MSD	SW- 13 (5')	121	107
890-157-42	SW-14 (5')	97	92
890-157-43	SW-15 (5')	106	102
890-157-44	SW-16 (5')	108	103
890-157-45	SW- 17 (2')	105	101
890-157-46	SW-18 (2')	108	103
890-157-47	SW-19 (2')	102	98
890-157-48	SW-20 (2')	104	99
890-157-49	SW-21 (2')	105	102
890-157-50	SW-22 (2')	107	103
890-157-51	SW-23 (2')	112	107
890-157-52	SW-24 (2')	111	106
890-157-53	SW-25 (5')	105	101
890-157-54	SW-26 (5')	106	101
LCS 890-223/2-A	Lab Control Sample	107	97
LCSD 890-223/3-A	Lab Control Sample Dup	104	92
MB 890-223/1-A	Method Blank	92	88

Surrogate Legend

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO2	OTPH2
		(70-135)	(70-135)
LCS 890-183/2-A	Lab Control Sample	107	96
LCS 890-185/2-A	Lab Control Sample	109	102
LCSD 890-183/3-A	Lab Control Sample Dup	103	92
LCSD 890-185/3-A	Lab Control Sample Dup	106	99
MB 890-183/1-A	Method Blank	93	90
MB 890-185/1-A	Method Blank	97	94

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 890-175/1-A

Matrix: Solid

Analysis Batch: 178

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 175

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 00:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 00:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 00:13	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 00:13	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 00:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/06/21 10:16	02/07/21 00:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/06/21 10:16	02/07/21 00:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130	02/06/21 10:16	02/07/21 00:13	1
4-Bromofluorobenzene (Surr)	106		70 - 130	02/06/21 10:16	02/07/21 00:13	1

Lab Sample ID: LCS 890-175/2-A

Matrix: Solid

Analysis Batch: 178

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0992	0.09437		mg/Kg		95	70 - 130
Ethylbenzene	0.0992	0.09256		mg/Kg		93	71 - 129
Toluene	0.0992	0.09106		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.198	0.1859		mg/Kg		94	70 - 135
o-Xylene	0.0992	0.09054		mg/Kg		91	71 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene	96		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 890-175/3-A

Matrix: Solid

Analysis Batch: 178

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09266		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.09133		mg/Kg		91	71 - 129	1	35
Toluene	0.100	0.08938		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1844		mg/Kg		92	70 - 135	1	35
o-Xylene	0.100	0.09160		mg/Kg		92	71 - 133	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene	94		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-157-1 MS

Matrix: Solid

Analysis Batch: 178

Client Sample ID: BH-1 (2')

Prep Type: Total/NA

Prep Batch: 175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.100	0.09193		mg/Kg		92	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Lab Sample ID: 890-157-1 MS

Matrix: Solid

Analysis Batch: 178

Client Sample ID: BH-1 (2')

Prep Type: Total/NA

Prep Batch: 175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.100	0.08838		mg/Kg		88	71 - 129
Toluene	<0.00199	U	0.100	0.08987		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1804		mg/Kg		90	70 - 135
o-Xylene	<0.00199	U	0.100	0.09233		mg/Kg		92	71 - 133
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,4-Difluorobenzene	95		70 - 130						
4-Bromofluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 890-157-1 MSD

Matrix: Solid

Analysis Batch: 178

Client Sample ID: BH-1 (2')

Prep Type: Total/NA

Prep Batch: 175

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0992	0.1068		mg/Kg		108	70 - 130	15	35
Ethylbenzene	<0.00199	U	0.0992	0.1033		mg/Kg		104	71 - 129	16	35
Toluene	<0.00199	U	0.0992	0.1061		mg/Kg		107	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2081		mg/Kg		105	70 - 135	14	35
o-Xylene	<0.00199	U	0.0992	0.1082		mg/Kg		109	71 - 133	16	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,4-Difluorobenzene	100		70 - 130								
4-Bromofluorobenzene (Surr)	96		70 - 130								

Lab Sample ID: MB 890-176/1-A

Matrix: Solid

Analysis Batch: 189

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 09:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 09:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 09:04	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 09:04	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 09:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/21 10:24	02/08/21 09:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:24	02/08/21 09:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130				02/06/21 10:24	02/08/21 09:04	1
4-Bromofluorobenzene (Surr)	88		70 - 130				02/06/21 10:24	02/08/21 09:04	1

Lab Sample ID: LCS 890-176/2-A

Matrix: Solid

Analysis Batch: 189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1053		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1054		mg/Kg		105	71 - 129

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Lab Sample ID: LCS 890-176/2-A

Matrix: Solid

Analysis Batch: 189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.1074		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 135
o-Xylene	0.100	0.1037		mg/Kg		104	71 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene	97		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 890-176/3-A

Matrix: Solid

Analysis Batch: 189

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 176

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09757		mg/Kg		98	70 - 130	8	35
Ethylbenzene	0.100	0.09500		mg/Kg		95	71 - 129	10	35
Toluene	0.100	0.09765		mg/Kg		98	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1881		mg/Kg		94	70 - 135	10	35
o-Xylene	0.100	0.09466		mg/Kg		95	71 - 133	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene	98		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-157-22 MS

Matrix: Solid

Analysis Batch: 189

Client Sample ID: BH-22 (2')

Prep Type: Total/NA

Prep Batch: 176

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.1219		mg/Kg		122	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1173		mg/Kg		118	71 - 129
Toluene	<0.00200	U	0.0998	0.1209		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2293		mg/Kg		115	70 - 135
o-Xylene	<0.00200	U	0.0998	0.1151		mg/Kg		115	71 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,4-Difluorobenzene	100		70 - 130
4-Bromofluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-157-22 MSD

Matrix: Solid

Analysis Batch: 189

Client Sample ID: BH-22 (2')

Prep Type: Total/NA

Prep Batch: 176

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.09886		mg/Kg		99	70 - 130	21	35
Ethylbenzene	<0.00200	U	0.0994	0.09164		mg/Kg		92	71 - 129	25	35
Toluene	<0.00200	U	0.0994	0.09717		mg/Kg		98	70 - 130	22	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1799		mg/Kg		91	70 - 135	24	35
o-Xylene	<0.00200	U	0.0994	0.09089		mg/Kg		91	71 - 133	23	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,4-Difluorobenzene	100		70 - 130
4-Bromofluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 890-177/1-A
Matrix: Solid
Analysis Batch: 190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/06/21 19:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/06/21 19:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/06/21 19:25	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/06/21 19:25	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/06/21 19:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/21 10:38	02/06/21 19:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/21 10:38	02/06/21 19:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	02/06/21 10:38	02/06/21 19:25	1
4-Bromofluorobenzene (Surr)	93		70 - 130	02/06/21 10:38	02/06/21 19:25	1

Lab Sample ID: LCS 890-177/2-A
Matrix: Solid
Analysis Batch: 190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09381		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09195		mg/Kg		92	71 - 129
Toluene	0.100	0.09657		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1830		mg/Kg		92	70 - 135
o-Xylene	0.100	0.09308		mg/Kg		93	71 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene	99		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 890-177/3-A
Matrix: Solid
Analysis Batch: 190

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 177

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09862		mg/Kg		99	70 - 130	5	35
Ethylbenzene	0.100	0.09739		mg/Kg		97	71 - 129	6	35
Toluene	0.100	0.09913		mg/Kg		99	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1922		mg/Kg		96	70 - 135	5	35
o-Xylene	0.100	0.09722		mg/Kg		97	71 - 133	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene	99		70 - 130
4-Bromofluorobenzene (Surr)	87		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Lab Sample ID: 890-157-41 MS

Matrix: Solid

Analysis Batch: 190

Client Sample ID: SW- 13 (5')

Prep Type: Total/NA

Prep Batch: 177

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0992	0.1079		mg/Kg		108	70 - 130
Ethylbenzene	<0.00199	U	0.0992	0.1046		mg/Kg		105	71 - 129
Toluene	<0.00199	U	0.0992	0.1070		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2040		mg/Kg		103	70 - 135
o-Xylene	<0.00199	U	0.0992	0.1037		mg/Kg		105	71 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,4-Difluorobenzene	98		70 - 130
4-Bromofluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-157-41 MSD

Matrix: Solid

Analysis Batch: 190

Client Sample ID: SW- 13 (5')

Prep Type: Total/NA

Prep Batch: 177

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.1086		mg/Kg		108	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0996	0.1070		mg/Kg		107	71 - 129	2	35
Toluene	<0.00199	U	0.0996	0.1103		mg/Kg		111	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2109		mg/Kg		106	70 - 135	3	35
o-Xylene	<0.00199	U	0.0996	0.1067		mg/Kg		107	71 - 133	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,4-Difluorobenzene	99		70 - 130
4-Bromofluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 890-191/1-A

Matrix: Solid

Analysis Batch: 189

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/08/21 11:42	02/08/21 20:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/08/21 11:42	02/08/21 20:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/08/21 11:42	02/08/21 20:06	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		02/08/21 11:42	02/08/21 20:06	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		02/08/21 11:42	02/08/21 20:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/08/21 11:42	02/08/21 20:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/08/21 11:42	02/08/21 20:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	02/08/21 11:42	02/08/21 20:06	1
4-Bromofluorobenzene (Surr)	89		70 - 130	02/08/21 11:42	02/08/21 20:06	1

Lab Sample ID: LCS 890-191/2-A

Matrix: Solid

Analysis Batch: 189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09883		mg/Kg		99	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Lab Sample ID: LCS 890-191/2-A

Matrix: Solid

Analysis Batch: 189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.09145		mg/Kg		91	71 - 129
Toluene	0.100	0.09722		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1771		mg/Kg		89	70 - 135
o-Xylene	0.100	0.09235		mg/Kg		92	71 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene	103		70 - 130
4-Bromofluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 890-191/3-A

Matrix: Solid

Analysis Batch: 189

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1071		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.09753		mg/Kg		98	71 - 129	6	35
Toluene	0.100	0.1024		mg/Kg		102	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1888		mg/Kg		94	70 - 135	6	35
o-Xylene	0.100	0.09726		mg/Kg		97	71 - 133	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene	103		70 - 130
4-Bromofluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-157-47 MS

Matrix: Solid

Analysis Batch: 189

Client Sample ID: SW-19 (2')

Prep Type: Total/NA

Prep Batch: 191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.101	0.1114		mg/Kg		110	70 - 130
Ethylbenzene	<0.00198	U	0.101	0.1045		mg/Kg		103	71 - 129
Toluene	<0.00198	U	0.101	0.1101		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2045		mg/Kg		101	70 - 135
o-Xylene	<0.00198	U	0.101	0.1031		mg/Kg		102	71 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,4-Difluorobenzene	101		70 - 130
4-Bromofluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 890-157-47 MSD

Matrix: Solid

Analysis Batch: 189

Client Sample ID: SW-19 (2')

Prep Type: Total/NA

Prep Batch: 191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U	0.101	0.1107		mg/Kg		110	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.101	0.1050		mg/Kg		104	71 - 129	0	35
Toluene	<0.00198	U	0.101	0.1075		mg/Kg		107	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2060		mg/Kg		102	70 - 135	1	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Lab Sample ID: 890-157-47 MSD

Matrix: Solid

Analysis Batch: 189

Client Sample ID: SW-19 (2')

Prep Type: Total/NA

Prep Batch: 191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00198	U	0.101	0.1044		mg/Kg		104	71 - 133	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,4-Difluorobenzene	100		70 - 130								
4-Bromofluorobenzene (Surr)	83		70 - 130								

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

Lab Sample ID: MB 890-183/1-A

Matrix: Solid

Analysis Batch: 216

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 09:29	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 09:29	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 09:29	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:20	02/09/21 09:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135				02/06/21 15:20	02/09/21 09:29	1
o-Terphenyl	90		70 - 135				02/06/21 15:20	02/09/21 09:29	1

Lab Sample ID: LCS 890-183/2-A

Matrix: Solid

Analysis Batch: 216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C10	1000	925.1		mg/Kg		93	70 - 135		
Over C10-C28	1000	988.7		mg/Kg		99	70 - 135		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	107		70 - 135						
o-Terphenyl	96		70 - 135						

Lab Sample ID: LCSD 890-183/3-A

Matrix: Solid

Analysis Batch: 216

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 183

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	930.3		mg/Kg		93	70 - 135	1	25
Over C10-C28	1000	995.6		mg/Kg		100	70 - 135	1	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	103		70 - 135						
o-Terphenyl	92		70 - 135						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Lab Sample ID: 890-157-1 MS

Matrix: Solid

Analysis Batch: 216

Client Sample ID: BH-1 (2')

Prep Type: Total/NA

Prep Batch: 183

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	<50.0	U	1000	918.2		mg/Kg		92	70 - 135
Total TPH	<50.0	U	2000	1891		mg/Kg		0	
Over C10-C28	<50.0	U	1000	972.4		mg/Kg		97	70 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	106		70 - 135						
o-Terphenyl	95		70 - 135						

Lab Sample ID: 890-157-1 MSD

Matrix: Solid

Analysis Batch: 216

Client Sample ID: BH-1 (2')

Prep Type: Total/NA

Prep Batch: 183

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	<50.0	U	1010	989.6		mg/Kg		98	70 - 135	7	35
Total TPH	<50.0	U	2010	2034		mg/Kg		0		NC	
Over C10-C28	<50.0	U	1010	1044		mg/Kg		104	70 - 135	7	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 135								
o-Terphenyl	101		70 - 135								

Lab Sample ID: MB 890-185/1-A

Matrix: Solid

Analysis Batch: 216

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/09/21 19:43	1
Total TPH	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/09/21 19:43	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/09/21 19:43	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/06/21 15:38	02/09/21 19:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135				02/06/21 15:38	02/09/21 19:43	1
o-Terphenyl	94		70 - 135				02/06/21 15:38	02/09/21 19:43	1

Lab Sample ID: LCS 890-185/2-A

Matrix: Solid

Analysis Batch: 216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	981.2		mg/Kg		98	70 - 135
Total TPH	2000	2030		mg/Kg		102	
Over C10-C28	1000	1049		mg/Kg		105	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	109		70 - 135				
o-Terphenyl	102		70 - 135				

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Lab Sample ID: LCSD 890-185/3-A

Matrix: Solid

Analysis Batch: 216

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	991.9		mg/Kg		99	70 - 135	1	25
Total TPH	2000	2054		mg/Kg		103		1	
Over C10-C28	1000	1062		mg/Kg		106	70 - 135	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 135
o-Terphenyl	99		70 - 135

Lab Sample ID: 890-157-21 MS

Matrix: Solid

Analysis Batch: 216

Client Sample ID: BH-21 (5')

Prep Type: Total/NA

Prep Batch: 185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	<50.3	U	1000	998.8		mg/Kg		99	70 - 135		
Total TPH	797		2010	2389		mg/Kg		0			
Over C10-C28	698	F1	1000	1291	F1	mg/Kg		59	70 - 135		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	109		70 - 135
o-Terphenyl	96		70 - 135

Lab Sample ID: 890-157-21 MSD

Matrix: Solid

Analysis Batch: 216

Client Sample ID: BH-21 (5')

Prep Type: Total/NA

Prep Batch: 185

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	<50.3	U	999	1009		mg/Kg		101	70 - 135	1	35
Total TPH	797		2000	2390		mg/Kg		0		NC	
Over C10-C28	698	F1	999	1292	F1	mg/Kg		59	70 - 135	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	108		70 - 135
o-Terphenyl	99		70 - 135

Lab Sample ID: MB 890-223/1-A

Matrix: Solid

Analysis Batch: 224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		02/09/21 18:09	02/10/21 06:29	1
Total TPH	<50.0	U	50.0		mg/Kg		02/09/21 18:09	02/10/21 06:29	1
Over C10-C28	<50.0	U	50.0		mg/Kg		02/09/21 18:09	02/10/21 06:29	1
>C28-C35	<50.0	U	50.0		mg/Kg		02/09/21 18:09	02/10/21 06:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135	02/09/21 18:09	02/10/21 06:29	1
o-Terphenyl	88		70 - 135	02/09/21 18:09	02/10/21 06:29	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

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

Lab Sample ID: LCS 890-223/2-A

Matrix: Solid

Analysis Batch: 224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 223

			Spike	LCS	LCS					
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
C6-C10			1000	1001		mg/Kg		100	70 - 135	
Over C10-C28			1000	1002		mg/Kg		100	70 - 135	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	107		70 - 135							
o-Terphenyl	97		70 - 135							

Lab Sample ID: LCSD 890-223/3-A

Matrix: Solid

Analysis Batch: 224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 223

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C6-C10			1000	1007		mg/Kg		101	70 - 135	1	25
Over C10-C28			1000	1002		mg/Kg		100	70 - 135	0	25
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	104		70 - 135								
o-Terphenyl	92		70 - 135								

Lab Sample ID: 890-157-41 MS

Matrix: Solid

Analysis Batch: 224

Client Sample ID: SW- 13 (5')

Prep Type: Total/NA

Prep Batch: 223

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
C6-C10	<49.8	U	1000	1022		mg/Kg		102	70 - 135		
Total TPH	<49.8	U	2000	2045		mg/Kg		0			
Over C10-C28	<49.8	U	1000	1023		mg/Kg		102	70 - 135		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	112		70 - 135								
o-Terphenyl	100		70 - 135								

Lab Sample ID: 890-157-41 MSD

Matrix: Solid

Analysis Batch: 224

Client Sample ID: SW- 13 (5')

Prep Type: Total/NA

Prep Batch: 223

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C6-C10	<49.8	U	996	1062		mg/Kg		107	70 - 135	4	35
Total TPH	<49.8	U	1990	2131		mg/Kg		0		NC	
Over C10-C28	<49.8	U	996	1069		mg/Kg		107	70 - 135	4	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 890-171/1-A

Matrix: Solid

Analysis Batch: 163

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/05/21 23:51	1

Lab Sample ID: MB 890-172/1-A

Matrix: Solid

Analysis Batch: 163

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/06/21 02:58	1

Lab Sample ID: MB 890-173/1-A

Matrix: Solid

Analysis Batch: 163

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/06/21 06:05	1

Lab Sample ID: LCS 890-171/2-A

Matrix: Solid

Analysis Batch: 163

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	500	534.8		mg/Kg		107	90 - 110

Lab Sample ID: LCS 890-172/2-A

Matrix: Solid

Analysis Batch: 163

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	500	534.1		mg/Kg		107	90 - 110

Lab Sample ID: LCS 890-173/2-A

Matrix: Solid

Analysis Batch: 163

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	500	533.7		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 890-171/3-A

Matrix: Solid

Analysis Batch: 163

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	500	531.8		mg/Kg		106	90 - 110	1	20

Lab Sample ID: LCSD 890-172/3-A

Matrix: Solid

Analysis Batch: 163

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	500	531.2		mg/Kg		106	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 890-173/3-A

Matrix: Solid

Analysis Batch: 163

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			500	528.9		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 890-157-1 MS

Matrix: Solid

Analysis Batch: 163

Client Sample ID: BH-1 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	10.2		505	546.5		mg/Kg		106	90 - 110		

Lab Sample ID: 890-157-1 MSD

Matrix: Solid

Analysis Batch: 163

Client Sample ID: BH-1 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.2		503	544.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-157-11 MS

Matrix: Solid

Analysis Batch: 163

Client Sample ID: BH-11 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	13.9		502	560.3		mg/Kg		109	90 - 110		

Lab Sample ID: 890-157-11 MSD

Matrix: Solid

Analysis Batch: 163

Client Sample ID: BH-11 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13.9		504	563.0		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 890-157-21 MS

Matrix: Solid

Analysis Batch: 163

Client Sample ID: BH-21 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	932		504	1437		mg/Kg		100	90 - 110		

Lab Sample ID: 890-157-21 MSD

Matrix: Solid

Analysis Batch: 163

Client Sample ID: BH-21 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	932		505	1441		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-157-31 MS

Matrix: Solid

Analysis Batch: 163

Client Sample ID: SW-3 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	17.0		499	558.5		mg/Kg		109	90 - 110		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-157-31 MSD

Matrix: Solid

Analysis Batch: 163

Client Sample ID: SW-3 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17.0		501	561.5		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 890-157-41 MS

Matrix: Solid

Analysis Batch: 163

Client Sample ID: SW- 13 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	13.3		505	533.9		mg/Kg		103	90 - 110		

Lab Sample ID: 890-157-41 MSD

Matrix: Solid

Analysis Batch: 163

Client Sample ID: SW- 13 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13.3		505	526.0		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-157-51 MS

Matrix: Solid

Analysis Batch: 163

Client Sample ID: SW-23 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	17.8		501	535.6		mg/Kg		103	90 - 110		

Lab Sample ID: 890-157-51 MSD

Matrix: Solid

Analysis Batch: 163

Client Sample ID: SW-23 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17.8		504	524.0		mg/Kg		100	90 - 110	2	20

Lab Sample ID: MB 890-207/1-A

Matrix: Solid

Analysis Batch: 218

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/10/21 02:07	1

Lab Sample ID: LCS 890-207/2-A

Matrix: Solid

Analysis Batch: 218

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	500	526.6		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 890-207/3-A

Matrix: Solid

Analysis Batch: 218

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	500	523.6		mg/Kg		105	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-160-A-98-F MS

Matrix: Solid

Analysis Batch: 218

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	9900		505	9834	4	mg/Kg		-13	90 - 110		

Lab Sample ID: 890-160-A-98-G MSD

Matrix: Solid

Analysis Batch: 218

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	9900		500	9569	4	mg/Kg		-66	90 - 110	3	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

GC VOA

Prep Batch: 175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-1	BH-1 (2')	Total/NA	Solid	5030C	
890-157-2	BH-2 (2')	Total/NA	Solid	5030C	
890-157-3	BH-3 (2')	Total/NA	Solid	5030C	
890-157-4	BH-4 (2')	Total/NA	Solid	5030C	
890-157-5	BH-5 (2')	Total/NA	Solid	5030C	
890-157-6	BH-6 (2')	Total/NA	Solid	5030C	
890-157-7	BH-7 (2')	Total/NA	Solid	5030C	
890-157-8	BH-8 (2')	Total/NA	Solid	5030C	
890-157-9	BH-9 (2')	Total/NA	Solid	5030C	
890-157-10	BH-10 (2')	Total/NA	Solid	5030C	
890-157-11	BH-11 (2')	Total/NA	Solid	5030C	
890-157-12	BH-12 (2')	Total/NA	Solid	5030C	
890-157-13	BH-13 (2')	Total/NA	Solid	5030C	
890-157-14	BH-14 (5')	Total/NA	Solid	5030C	
890-157-15	BH-15 (5')	Total/NA	Solid	5030C	
890-157-16	BH-16 (5')	Total/NA	Solid	5030C	
890-157-17	BH-17 (5')	Total/NA	Solid	5030C	
890-157-18	BH- 18 (2')	Total/NA	Solid	5030C	
890-157-19	BH-19 (2')	Total/NA	Solid	5030C	
890-157-20	BH- 20 (2')	Total/NA	Solid	5030C	
MB 890-175/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 890-175/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 890-175/3-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
890-157-1 MS	BH-1 (2')	Total/NA	Solid	5030C	
890-157-1 MSD	BH-1 (2')	Total/NA	Solid	5030C	

Prep Batch: 176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-21	BH-21 (5')	Total/NA	Solid	5030C	
890-157-22	BH-22 (2')	Total/NA	Solid	5030C	
890-157-23	BH-23 (2')	Total/NA	Solid	5030C	
890-157-24	BH- 24 (2')	Total/NA	Solid	5030C	
890-157-25	BH-25 (2')	Total/NA	Solid	5030C	
890-157-26	BH-26 (2')	Total/NA	Solid	5030C	
890-157-27	BH-27 (2')	Total/NA	Solid	5030C	
890-157-28	BH-28 (2')	Total/NA	Solid	5030C	
890-157-29	SW-1 (2')	Total/NA	Solid	5030C	
890-157-30	SW-2 (2')	Total/NA	Solid	5030C	
890-157-31	SW-3 (2')	Total/NA	Solid	5030C	
890-157-32	SW-4 (2')	Total/NA	Solid	5030C	
890-157-33	SW-5 (5')	Total/NA	Solid	5030C	
890-157-34	SW-6 (5')	Total/NA	Solid	5030C	
890-157-35	SW-7 (5')	Total/NA	Solid	5030C	
890-157-36	SW-8 (5')	Total/NA	Solid	5030C	
890-157-37	SW-9 (2')	Total/NA	Solid	5030C	
890-157-38	SW-10 (2')	Total/NA	Solid	5030C	
890-157-39	SW-11 (2')	Total/NA	Solid	5030C	
890-157-40	SW-12 (2')	Total/NA	Solid	5030C	
MB 890-176/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 890-176/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 890-176/3-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

GC VOA (Continued)

Prep Batch: 176 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-22 MS	BH-22 (2')	Total/NA	Solid	5030C	
890-157-22 MSD	BH-22 (2')	Total/NA	Solid	5030C	

Prep Batch: 177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-41	SW- 13 (5')	Total/NA	Solid	5030C	
890-157-42	SW-14 (5')	Total/NA	Solid	5030C	
890-157-43	SW-15 (5')	Total/NA	Solid	5030C	
890-157-44	SW-16 (5')	Total/NA	Solid	5030C	
890-157-45	SW- 17 (2')	Total/NA	Solid	5030C	
890-157-46	SW-18 (2')	Total/NA	Solid	5030C	
890-157-48	SW-20 (2')	Total/NA	Solid	5030C	
890-157-49	SW-21 (2')	Total/NA	Solid	5030C	
890-157-50	SW-22 (2')	Total/NA	Solid	5030C	
890-157-51	SW-23 (2')	Total/NA	Solid	5030C	
890-157-52	SW-24 (2')	Total/NA	Solid	5030C	
890-157-53	SW-25 (5')	Total/NA	Solid	5030C	
890-157-54	SW-26 (5')	Total/NA	Solid	5030C	
MB 890-177/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 890-177/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 890-177/3-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
890-157-41 MS	SW- 13 (5')	Total/NA	Solid	5030C	
890-157-41 MSD	SW- 13 (5')	Total/NA	Solid	5030C	

Analysis Batch: 178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-1	BH-1 (2')	Total/NA	Solid	8021B	175
890-157-2	BH-2 (2')	Total/NA	Solid	8021B	175
890-157-3	BH-3 (2')	Total/NA	Solid	8021B	175
890-157-4	BH-4 (2')	Total/NA	Solid	8021B	175
890-157-5	BH-5 (2')	Total/NA	Solid	8021B	175
890-157-6	BH-6 (2')	Total/NA	Solid	8021B	175
890-157-7	BH-7 (2')	Total/NA	Solid	8021B	175
890-157-8	BH-8 (2')	Total/NA	Solid	8021B	175
890-157-9	BH-9 (2')	Total/NA	Solid	8021B	175
890-157-10	BH-10 (2')	Total/NA	Solid	8021B	175
890-157-11	BH-11 (2')	Total/NA	Solid	8021B	175
890-157-12	BH-12 (2')	Total/NA	Solid	8021B	175
890-157-13	BH-13 (2')	Total/NA	Solid	8021B	175
890-157-14	BH-14 (5')	Total/NA	Solid	8021B	175
890-157-15	BH-15 (5')	Total/NA	Solid	8021B	175
890-157-16	BH-16 (5')	Total/NA	Solid	8021B	175
890-157-17	BH-17 (5')	Total/NA	Solid	8021B	175
890-157-18	BH- 18 (2')	Total/NA	Solid	8021B	175
890-157-19	BH-19 (2')	Total/NA	Solid	8021B	175
890-157-20	BH- 20 (2')	Total/NA	Solid	8021B	175
MB 890-175/1-A	Method Blank	Total/NA	Solid	8021B	175
LCS 890-175/2-A	Lab Control Sample	Total/NA	Solid	8021B	175
LCSD 890-175/3-A	Lab Control Sample Dup	Total/NA	Solid	8021B	175
890-157-1 MS	BH-1 (2')	Total/NA	Solid	8021B	175
890-157-1 MSD	BH-1 (2')	Total/NA	Solid	8021B	175

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

GC VOA

Analysis Batch: 189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-21	BH-21 (5')	Total/NA	Solid	8021B	176
890-157-22	BH-22 (2')	Total/NA	Solid	8021B	176
890-157-23	BH-23 (2')	Total/NA	Solid	8021B	176
890-157-24	BH- 24 (2')	Total/NA	Solid	8021B	176
890-157-25	BH-25 (2')	Total/NA	Solid	8021B	176
890-157-26	BH-26 (2')	Total/NA	Solid	8021B	176
890-157-27	BH-27 (2')	Total/NA	Solid	8021B	176
890-157-28	BH-28 (2')	Total/NA	Solid	8021B	176
890-157-29	SW-1 (2')	Total/NA	Solid	8021B	176
890-157-30	SW-2 (2')	Total/NA	Solid	8021B	176
890-157-31	SW-3 (2')	Total/NA	Solid	8021B	176
890-157-32	SW-4 (2')	Total/NA	Solid	8021B	176
890-157-33	SW-5 (5')	Total/NA	Solid	8021B	176
890-157-34	SW-6 (5')	Total/NA	Solid	8021B	176
890-157-35	SW-7 (5')	Total/NA	Solid	8021B	176
890-157-36	SW-8 (5')	Total/NA	Solid	8021B	176
890-157-37	SW-9 (2')	Total/NA	Solid	8021B	176
890-157-38	SW-10 (2')	Total/NA	Solid	8021B	176
890-157-39	SW-11 (2')	Total/NA	Solid	8021B	176
890-157-40	SW-12 (2')	Total/NA	Solid	8021B	176
890-157-47	SW-19 (2')	Total/NA	Solid	8021B	191
MB 890-176/1-A	Method Blank	Total/NA	Solid	8021B	176
MB 890-191/1-A	Method Blank	Total/NA	Solid	8021B	191
LCS 890-176/2-A	Lab Control Sample	Total/NA	Solid	8021B	176
LCS 890-191/2-A	Lab Control Sample	Total/NA	Solid	8021B	191
LCSD 890-176/3-A	Lab Control Sample Dup	Total/NA	Solid	8021B	176
LCSD 890-191/3-A	Lab Control Sample Dup	Total/NA	Solid	8021B	191
890-157-22 MS	BH-22 (2')	Total/NA	Solid	8021B	176
890-157-22 MSD	BH-22 (2')	Total/NA	Solid	8021B	176
890-157-47 MS	SW-19 (2')	Total/NA	Solid	8021B	191
890-157-47 MSD	SW-19 (2')	Total/NA	Solid	8021B	191

Analysis Batch: 190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-41	SW- 13 (5')	Total/NA	Solid	8021B	177
890-157-42	SW-14 (5')	Total/NA	Solid	8021B	177
890-157-43	SW-15 (5')	Total/NA	Solid	8021B	177
890-157-44	SW-16 (5')	Total/NA	Solid	8021B	177
890-157-45	SW- 17 (2')	Total/NA	Solid	8021B	177
890-157-46	SW-18 (2')	Total/NA	Solid	8021B	177
890-157-48	SW-20 (2')	Total/NA	Solid	8021B	177
890-157-49	SW-21 (2')	Total/NA	Solid	8021B	177
890-157-50	SW-22 (2')	Total/NA	Solid	8021B	177
890-157-51	SW-23 (2')	Total/NA	Solid	8021B	177
890-157-52	SW-24 (2')	Total/NA	Solid	8021B	177
890-157-53	SW-25 (5')	Total/NA	Solid	8021B	177
890-157-54	SW-26 (5')	Total/NA	Solid	8021B	177
MB 890-177/1-A	Method Blank	Total/NA	Solid	8021B	177
LCS 890-177/2-A	Lab Control Sample	Total/NA	Solid	8021B	177
LCSD 890-177/3-A	Lab Control Sample Dup	Total/NA	Solid	8021B	177
890-157-41 MS	SW- 13 (5')	Total/NA	Solid	8021B	177

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

GC VOA (Continued)

Analysis Batch: 190 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-41 MSD	SW- 13 (5')	Total/NA	Solid	8021B	177

Prep Batch: 191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-47	SW-19 (2')	Total/NA	Solid	5030C	
MB 890-191/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 890-191/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 890-191/3-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
890-157-47 MS	SW-19 (2')	Total/NA	Solid	5030C	
890-157-47 MSD	SW-19 (2')	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-1	BH-1 (2')	Total/NA	Solid	8015NM Prep	
890-157-2	BH-2 (2')	Total/NA	Solid	8015NM Prep	
890-157-3	BH-3 (2')	Total/NA	Solid	8015NM Prep	
890-157-4	BH-4 (2')	Total/NA	Solid	8015NM Prep	
890-157-5	BH-5 (2')	Total/NA	Solid	8015NM Prep	
890-157-6	BH-6 (2')	Total/NA	Solid	8015NM Prep	
890-157-7	BH-7 (2')	Total/NA	Solid	8015NM Prep	
890-157-8	BH-8 (2')	Total/NA	Solid	8015NM Prep	
890-157-9	BH-9 (2')	Total/NA	Solid	8015NM Prep	
890-157-10	BH-10 (2')	Total/NA	Solid	8015NM Prep	
890-157-11	BH-11 (2')	Total/NA	Solid	8015NM Prep	
890-157-12	BH-12 (2')	Total/NA	Solid	8015NM Prep	
890-157-13	BH-13 (2')	Total/NA	Solid	8015NM Prep	
890-157-14	BH-14 (5')	Total/NA	Solid	8015NM Prep	
890-157-15	BH-15 (5')	Total/NA	Solid	8015NM Prep	
890-157-16	BH-16 (5')	Total/NA	Solid	8015NM Prep	
890-157-17	BH-17 (5')	Total/NA	Solid	8015NM Prep	
890-157-18	BH- 18 (2')	Total/NA	Solid	8015NM Prep	
890-157-19	BH-19 (2')	Total/NA	Solid	8015NM Prep	
890-157-20	BH- 20 (2')	Total/NA	Solid	8015NM Prep	
MB 890-183/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 890-183/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 890-183/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-157-1 MS	BH-1 (2')	Total/NA	Solid	8015NM Prep	
890-157-1 MSD	BH-1 (2')	Total/NA	Solid	8015NM Prep	

Prep Batch: 185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-21	BH-21 (5')	Total/NA	Solid	8015NM Prep	
890-157-22	BH-22 (2')	Total/NA	Solid	8015NM Prep	
890-157-23	BH-23 (2')	Total/NA	Solid	8015NM Prep	
890-157-24	BH- 24 (2')	Total/NA	Solid	8015NM Prep	
890-157-25	BH-25 (2')	Total/NA	Solid	8015NM Prep	
890-157-26	BH-26 (2')	Total/NA	Solid	8015NM Prep	
890-157-27	BH-27 (2')	Total/NA	Solid	8015NM Prep	
890-157-28	BH-28 (2')	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

GC Semi VOA (Continued)

Prep Batch: 185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-29	SW-1 (2')	Total/NA	Solid	8015NM Prep	
890-157-30	SW-2 (2')	Total/NA	Solid	8015NM Prep	
890-157-31	SW-3 (2')	Total/NA	Solid	8015NM Prep	
890-157-32	SW-4 (2')	Total/NA	Solid	8015NM Prep	
890-157-33	SW-5 (5')	Total/NA	Solid	8015NM Prep	
890-157-34	SW-6 (5')	Total/NA	Solid	8015NM Prep	
890-157-35	SW-7 (5')	Total/NA	Solid	8015NM Prep	
890-157-36	SW-8 (5')	Total/NA	Solid	8015NM Prep	
890-157-37	SW-9 (2')	Total/NA	Solid	8015NM Prep	
890-157-38	SW-10 (2')	Total/NA	Solid	8015NM Prep	
890-157-39	SW-11 (2')	Total/NA	Solid	8015NM Prep	
890-157-40	SW-12 (2')	Total/NA	Solid	8015NM Prep	
MB 890-185/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 890-185/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 890-185/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-157-21 MS	BH-21 (5')	Total/NA	Solid	8015NM Prep	
890-157-21 MSD	BH-21 (5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-1	BH-1 (2')	Total/NA	Solid	8015B NM	183
890-157-2	BH-2 (2')	Total/NA	Solid	8015B NM	183
890-157-3	BH-3 (2')	Total/NA	Solid	8015B NM	183
890-157-4	BH-4 (2')	Total/NA	Solid	8015B NM	183
890-157-5	BH-5 (2')	Total/NA	Solid	8015B NM	183
890-157-6	BH-6 (2')	Total/NA	Solid	8015B NM	183
890-157-7	BH-7 (2')	Total/NA	Solid	8015B NM	183
890-157-8	BH-8 (2')	Total/NA	Solid	8015B NM	183
890-157-9	BH-9 (2')	Total/NA	Solid	8015B NM	183
890-157-10	BH-10 (2')	Total/NA	Solid	8015B NM	183
890-157-11	BH-11 (2')	Total/NA	Solid	8015B NM	183
890-157-12	BH-12 (2')	Total/NA	Solid	8015B NM	183
890-157-13	BH-13 (2')	Total/NA	Solid	8015B NM	183
890-157-14	BH-14 (5')	Total/NA	Solid	8015B NM	183
890-157-15	BH-15 (5')	Total/NA	Solid	8015B NM	183
890-157-16	BH-16 (5')	Total/NA	Solid	8015B NM	183
890-157-17	BH-17 (5')	Total/NA	Solid	8015B NM	183
890-157-18	BH- 18 (2')	Total/NA	Solid	8015B NM	183
890-157-19	BH-19 (2')	Total/NA	Solid	8015B NM	183
890-157-20	BH- 20 (2')	Total/NA	Solid	8015B NM	183
890-157-21	BH-21 (5')	Total/NA	Solid	8015B NM	185
890-157-22	BH-22 (2')	Total/NA	Solid	8015B NM	185
890-157-23	BH-23 (2')	Total/NA	Solid	8015B NM	185
890-157-24	BH- 24 (2')	Total/NA	Solid	8015B NM	185
890-157-25	BH-25 (2')	Total/NA	Solid	8015B NM	185
890-157-26	BH-26 (2')	Total/NA	Solid	8015B NM	185
890-157-27	BH-27 (2')	Total/NA	Solid	8015B NM	185
890-157-28	BH-28 (2')	Total/NA	Solid	8015B NM	185
890-157-29	SW-1 (2')	Total/NA	Solid	8015B NM	185
890-157-30	SW-2 (2')	Total/NA	Solid	8015B NM	185
890-157-31	SW-3 (2')	Total/NA	Solid	8015B NM	185

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

GC Semi VOA (Continued)

Analysis Batch: 216 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-32	SW-4 (2')	Total/NA	Solid	8015B NM	185
890-157-33	SW-5 (5')	Total/NA	Solid	8015B NM	185
890-157-34	SW-6 (5')	Total/NA	Solid	8015B NM	185
890-157-35	SW-7 (5')	Total/NA	Solid	8015B NM	185
890-157-36	SW-8 (5')	Total/NA	Solid	8015B NM	185
890-157-37	SW-9 (2')	Total/NA	Solid	8015B NM	185
890-157-38	SW-10 (2')	Total/NA	Solid	8015B NM	185
890-157-39	SW-11 (2')	Total/NA	Solid	8015B NM	185
890-157-40	SW-12 (2')	Total/NA	Solid	8015B NM	185
MB 890-183/1-A	Method Blank	Total/NA	Solid	8015B NM	183
MB 890-185/1-A	Method Blank	Total/NA	Solid	8015B NM	185
LCS 890-183/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	183
LCS 890-185/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	185
LCSD 890-183/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	183
LCSD 890-185/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	185
890-157-1 MS	BH-1 (2')	Total/NA	Solid	8015B NM	183
890-157-1 MSD	BH-1 (2')	Total/NA	Solid	8015B NM	183
890-157-21 MS	BH-21 (5')	Total/NA	Solid	8015B NM	185
890-157-21 MSD	BH-21 (5')	Total/NA	Solid	8015B NM	185

Prep Batch: 223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-41	SW- 13 (5')	Total/NA	Solid	8015NM Prep	
890-157-42	SW-14 (5')	Total/NA	Solid	8015NM Prep	
890-157-43	SW-15 (5')	Total/NA	Solid	8015NM Prep	
890-157-44	SW-16 (5')	Total/NA	Solid	8015NM Prep	
890-157-45	SW- 17 (2')	Total/NA	Solid	8015NM Prep	
890-157-46	SW-18 (2')	Total/NA	Solid	8015NM Prep	
890-157-47	SW-19 (2')	Total/NA	Solid	8015NM Prep	
890-157-48	SW-20 (2')	Total/NA	Solid	8015NM Prep	
890-157-49	SW-21 (2')	Total/NA	Solid	8015NM Prep	
890-157-50	SW-22 (2')	Total/NA	Solid	8015NM Prep	
890-157-51	SW-23 (2')	Total/NA	Solid	8015NM Prep	
890-157-52	SW-24 (2')	Total/NA	Solid	8015NM Prep	
890-157-53	SW-25 (5')	Total/NA	Solid	8015NM Prep	
890-157-54	SW-26 (5')	Total/NA	Solid	8015NM Prep	
MB 890-223/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 890-223/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 890-223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-157-41 MS	SW- 13 (5')	Total/NA	Solid	8015NM Prep	
890-157-41 MSD	SW- 13 (5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-41	SW- 13 (5')	Total/NA	Solid	8015B NM	223
890-157-42	SW-14 (5')	Total/NA	Solid	8015B NM	223
890-157-43	SW-15 (5')	Total/NA	Solid	8015B NM	223
890-157-44	SW-16 (5')	Total/NA	Solid	8015B NM	223
890-157-45	SW- 17 (2')	Total/NA	Solid	8015B NM	223
890-157-46	SW-18 (2')	Total/NA	Solid	8015B NM	223
890-157-47	SW-19 (2')	Total/NA	Solid	8015B NM	223

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

GC Semi VOA (Continued)

Analysis Batch: 224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-48	SW-20 (2')	Total/NA	Solid	8015B NM	223
890-157-49	SW-21 (2')	Total/NA	Solid	8015B NM	223
890-157-50	SW-22 (2')	Total/NA	Solid	8015B NM	223
890-157-51	SW-23 (2')	Total/NA	Solid	8015B NM	223
890-157-52	SW-24 (2')	Total/NA	Solid	8015B NM	223
890-157-53	SW-25 (5')	Total/NA	Solid	8015B NM	223
890-157-54	SW-26 (5')	Total/NA	Solid	8015B NM	223
MB 890-223/1-A	Method Blank	Total/NA	Solid	8015B NM	223
LCS 890-223/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	223
LCSD 890-223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	223
890-157-41 MS	SW- 13 (5')	Total/NA	Solid	8015B NM	223
890-157-41 MSD	SW- 13 (5')	Total/NA	Solid	8015B NM	223

HPLC/IC

Analysis Batch: 163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-1	BH-1 (2')	Soluble	Solid	300.0	171
890-157-2	BH-2 (2')	Soluble	Solid	300.0	171
890-157-3	BH-3 (2')	Soluble	Solid	300.0	171
890-157-4	BH-4 (2')	Soluble	Solid	300.0	171
890-157-5	BH-5 (2')	Soluble	Solid	300.0	171
890-157-6	BH-6 (2')	Soluble	Solid	300.0	171
890-157-7	BH-7 (2')	Soluble	Solid	300.0	171
890-157-8	BH-8 (2')	Soluble	Solid	300.0	171
890-157-9	BH-9 (2')	Soluble	Solid	300.0	171
890-157-10	BH-10 (2')	Soluble	Solid	300.0	171
890-157-11	BH-11 (2')	Soluble	Solid	300.0	171
890-157-12	BH-12 (2')	Soluble	Solid	300.0	171
890-157-13	BH-13 (2')	Soluble	Solid	300.0	171
890-157-14	BH-14 (5')	Soluble	Solid	300.0	171
890-157-15	BH-15 (5')	Soluble	Solid	300.0	171
890-157-16	BH-16 (5')	Soluble	Solid	300.0	171
890-157-17	BH-17 (5')	Soluble	Solid	300.0	171
890-157-18	BH- 18 (2')	Soluble	Solid	300.0	171
890-157-19	BH-19 (2')	Soluble	Solid	300.0	171
890-157-20	BH- 20 (2')	Soluble	Solid	300.0	171
890-157-21	BH-21 (5')	Soluble	Solid	300.0	172
890-157-22	BH-22 (2')	Soluble	Solid	300.0	172
890-157-23	BH-23 (2')	Soluble	Solid	300.0	172
890-157-24	BH- 24 (2')	Soluble	Solid	300.0	172
890-157-25	BH-25 (2')	Soluble	Solid	300.0	172
890-157-26	BH-26 (2')	Soluble	Solid	300.0	172
890-157-27	BH-27 (2')	Soluble	Solid	300.0	172
890-157-28	BH-28 (2')	Soluble	Solid	300.0	172
890-157-29	SW-1 (2')	Soluble	Solid	300.0	172
890-157-30	SW-2 (2')	Soluble	Solid	300.0	172
890-157-31	SW-3 (2')	Soluble	Solid	300.0	172
890-157-32	SW-4 (2')	Soluble	Solid	300.0	172
890-157-33	SW-5 (5')	Soluble	Solid	300.0	172
890-157-34	SW-6 (5')	Soluble	Solid	300.0	172

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

HPLC/IC (Continued)

Analysis Batch: 163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-35	SW-7 (5')	Soluble	Solid	300.0	172
890-157-36	SW-8 (5')	Soluble	Solid	300.0	172
890-157-37	SW-9 (2')	Soluble	Solid	300.0	172
890-157-38	SW-10 (2')	Soluble	Solid	300.0	172
890-157-39	SW-11 (2')	Soluble	Solid	300.0	172
890-157-40	SW-12 (2')	Soluble	Solid	300.0	172
890-157-41	SW- 13 (5')	Soluble	Solid	300.0	173
890-157-43	SW-15 (5')	Soluble	Solid	300.0	173
890-157-44	SW-16 (5')	Soluble	Solid	300.0	173
890-157-45	SW- 17 (2')	Soluble	Solid	300.0	173
890-157-46	SW-18 (2')	Soluble	Solid	300.0	173
890-157-47	SW-19 (2')	Soluble	Solid	300.0	173
890-157-48	SW-20 (2')	Soluble	Solid	300.0	173
890-157-49	SW-21 (2')	Soluble	Solid	300.0	173
890-157-50	SW-22 (2')	Soluble	Solid	300.0	173
890-157-51	SW-23 (2')	Soluble	Solid	300.0	173
890-157-52	SW-24 (2')	Soluble	Solid	300.0	173
890-157-53	SW-25 (5')	Soluble	Solid	300.0	173
890-157-54	SW-26 (5')	Soluble	Solid	300.0	173
MB 890-171/1-A	Method Blank	Soluble	Solid	300.0	171
MB 890-172/1-A	Method Blank	Soluble	Solid	300.0	172
MB 890-173/1-A	Method Blank	Soluble	Solid	300.0	173
LCS 890-171/2-A	Lab Control Sample	Soluble	Solid	300.0	171
LCS 890-172/2-A	Lab Control Sample	Soluble	Solid	300.0	172
LCS 890-173/2-A	Lab Control Sample	Soluble	Solid	300.0	173
LCSD 890-171/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	171
LCSD 890-172/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	172
LCSD 890-173/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	173
890-157-1 MS	BH-1 (2')	Soluble	Solid	300.0	171
890-157-1 MSD	BH-1 (2')	Soluble	Solid	300.0	171
890-157-11 MS	BH-11 (2')	Soluble	Solid	300.0	171
890-157-11 MSD	BH-11 (2')	Soluble	Solid	300.0	171
890-157-21 MS	BH-21 (5')	Soluble	Solid	300.0	172
890-157-21 MSD	BH-21 (5')	Soluble	Solid	300.0	172
890-157-31 MS	SW-3 (2')	Soluble	Solid	300.0	172
890-157-31 MSD	SW-3 (2')	Soluble	Solid	300.0	172
890-157-41 MS	SW- 13 (5')	Soluble	Solid	300.0	173
890-157-41 MSD	SW- 13 (5')	Soluble	Solid	300.0	173
890-157-51 MS	SW-23 (2')	Soluble	Solid	300.0	173
890-157-51 MSD	SW-23 (2')	Soluble	Solid	300.0	173

Leach Batch: 171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-1	BH-1 (2')	Soluble	Solid	DI Leach	
890-157-2	BH-2 (2')	Soluble	Solid	DI Leach	
890-157-3	BH-3 (2')	Soluble	Solid	DI Leach	
890-157-4	BH-4 (2')	Soluble	Solid	DI Leach	
890-157-5	BH-5 (2')	Soluble	Solid	DI Leach	
890-157-6	BH-6 (2')	Soluble	Solid	DI Leach	
890-157-7	BH-7 (2')	Soluble	Solid	DI Leach	
890-157-8	BH-8 (2')	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

HPLC/IC (Continued)

Leach Batch: 171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-9	BH-9 (2')	Soluble	Solid	DI Leach	
890-157-10	BH-10 (2')	Soluble	Solid	DI Leach	
890-157-11	BH-11 (2')	Soluble	Solid	DI Leach	
890-157-12	BH-12 (2')	Soluble	Solid	DI Leach	
890-157-13	BH-13 (2')	Soluble	Solid	DI Leach	
890-157-14	BH-14 (5')	Soluble	Solid	DI Leach	
890-157-15	BH-15 (5')	Soluble	Solid	DI Leach	
890-157-16	BH-16 (5')	Soluble	Solid	DI Leach	
890-157-17	BH-17 (5')	Soluble	Solid	DI Leach	
890-157-18	BH- 18 (2')	Soluble	Solid	DI Leach	
890-157-19	BH-19 (2')	Soluble	Solid	DI Leach	
890-157-20	BH- 20 (2')	Soluble	Solid	DI Leach	
MB 890-171/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 890-171/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 890-171/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-157-1 MS	BH-1 (2')	Soluble	Solid	DI Leach	
890-157-1 MSD	BH-1 (2')	Soluble	Solid	DI Leach	
890-157-11 MS	BH-11 (2')	Soluble	Solid	DI Leach	
890-157-11 MSD	BH-11 (2')	Soluble	Solid	DI Leach	

Leach Batch: 172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-21	BH-21 (5')	Soluble	Solid	DI Leach	
890-157-22	BH-22 (2')	Soluble	Solid	DI Leach	
890-157-23	BH-23 (2')	Soluble	Solid	DI Leach	
890-157-24	BH- 24 (2')	Soluble	Solid	DI Leach	
890-157-25	BH-25 (2')	Soluble	Solid	DI Leach	
890-157-26	BH-26 (2')	Soluble	Solid	DI Leach	
890-157-27	BH-27 (2')	Soluble	Solid	DI Leach	
890-157-28	BH-28 (2')	Soluble	Solid	DI Leach	
890-157-29	SW-1 (2')	Soluble	Solid	DI Leach	
890-157-30	SW-2 (2')	Soluble	Solid	DI Leach	
890-157-31	SW-3 (2')	Soluble	Solid	DI Leach	
890-157-32	SW-4 (2')	Soluble	Solid	DI Leach	
890-157-33	SW-5 (5')	Soluble	Solid	DI Leach	
890-157-34	SW-6 (5')	Soluble	Solid	DI Leach	
890-157-35	SW-7 (5')	Soluble	Solid	DI Leach	
890-157-36	SW-8 (5')	Soluble	Solid	DI Leach	
890-157-37	SW-9 (2')	Soluble	Solid	DI Leach	
890-157-38	SW-10 (2')	Soluble	Solid	DI Leach	
890-157-39	SW-11 (2')	Soluble	Solid	DI Leach	
890-157-40	SW-12 (2')	Soluble	Solid	DI Leach	
MB 890-172/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 890-172/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 890-172/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-157-21 MS	BH-21 (5')	Soluble	Solid	DI Leach	
890-157-21 MSD	BH-21 (5')	Soluble	Solid	DI Leach	
890-157-31 MS	SW-3 (2')	Soluble	Solid	DI Leach	
890-157-31 MSD	SW-3 (2')	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

HPLC/IC

Leach Batch: 173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-41	SW- 13 (5')	Soluble	Solid	DI Leach	
890-157-43	SW-15 (5')	Soluble	Solid	DI Leach	
890-157-44	SW-16 (5')	Soluble	Solid	DI Leach	
890-157-45	SW- 17 (2')	Soluble	Solid	DI Leach	
890-157-46	SW-18 (2')	Soluble	Solid	DI Leach	
890-157-47	SW-19 (2')	Soluble	Solid	DI Leach	
890-157-48	SW-20 (2')	Soluble	Solid	DI Leach	
890-157-49	SW-21 (2')	Soluble	Solid	DI Leach	
890-157-50	SW-22 (2')	Soluble	Solid	DI Leach	
890-157-51	SW-23 (2')	Soluble	Solid	DI Leach	
890-157-52	SW-24 (2')	Soluble	Solid	DI Leach	
890-157-53	SW-25 (5')	Soluble	Solid	DI Leach	
890-157-54	SW-26 (5')	Soluble	Solid	DI Leach	
MB 890-173/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 890-173/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 890-173/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-157-41 MS	SW- 13 (5')	Soluble	Solid	DI Leach	
890-157-41 MSD	SW- 13 (5')	Soluble	Solid	DI Leach	
890-157-51 MS	SW-23 (2')	Soluble	Solid	DI Leach	
890-157-51 MSD	SW-23 (2')	Soluble	Solid	DI Leach	

Leach Batch: 207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-42	SW-14 (5')	Soluble	Solid	DI Leach	
MB 890-207/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 890-207/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 890-207/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-160-A-98-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-160-A-98-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-157-42	SW-14 (5')	Soluble	Solid	300.0	207
MB 890-207/1-A	Method Blank	Soluble	Solid	300.0	207
LCS 890-207/2-A	Lab Control Sample	Soluble	Solid	300.0	207
LCSD 890-207/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	207
890-160-A-98-F MS	Matrix Spike	Soluble	Solid	300.0	207
890-160-A-98-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	207

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-1 (2')

Lab Sample ID: 890-157-1

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 01:20	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 10:30	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 00:08	A1S	XC

Client Sample ID: BH-2 (2')

Lab Sample ID: 890-157-2

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 02:28	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 11:32	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 00:25	A1S	XC

Client Sample ID: BH-3 (2')

Lab Sample ID: 890-157-3

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 02:50	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 11:52	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 00:30	A1S	XC

Client Sample ID: BH-4 (2')

Lab Sample ID: 890-157-4

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 03:12	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 12:13	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 00:36	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-5 (2')

Lab Sample ID: 890-157-5

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 03:35	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 12:33	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 00:42	A1S	XC

Client Sample ID: BH-6 (2')

Lab Sample ID: 890-157-6

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 04:20	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 13:14	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 00:59	A1S	XC

Client Sample ID: BH-7 (2')

Lab Sample ID: 890-157-7

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 04:42	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 13:34	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 01:04	A1S	XC

Client Sample ID: BH-8 (2')

Lab Sample ID: 890-157-8

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 05:05	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 13:55	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 01:10	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-9 (2')

Lab Sample ID: 890-157-9

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 05:27	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 14:15	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 01:16	A1S	XC

Client Sample ID: BH-10 (2')

Lab Sample ID: 890-157-10

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 05:50	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 14:36	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 01:22	A1S	XC

Client Sample ID: BH-11 (2')

Lab Sample ID: 890-157-11

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 06:12	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 14:56	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 01:27	A1S	XC

Client Sample ID: BH-12 (2')

Lab Sample ID: 890-157-12

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 06:35	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 15:17	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 01:44	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-13 (2')

Lab Sample ID: 890-157-13

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 06:57	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 15:38	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 01:50	A1S	XC

Client Sample ID: BH-14 (5')

Lab Sample ID: 890-157-14

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 07:19	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 15:59	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 02:07	A1S	XC

Client Sample ID: BH-15 (5')

Lab Sample ID: 890-157-15

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 07:42	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 16:20	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		5	163	02/06/21 02:13	A1S	XC

Client Sample ID: BH-16 (5')

Lab Sample ID: 890-157-16

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 08:27	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 17:02	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 02:18	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-17 (5')

Lab Sample ID: 890-157-17

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 08:49	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 17:23	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 02:24	A1S	XC

Client Sample ID: BH- 18 (2')

Lab Sample ID: 890-157-18

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 09:12	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 18:22	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 02:30	A1S	XC

Client Sample ID: BH-19 (2')

Lab Sample ID: 890-157-19

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 09:34	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 18:42	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 02:35	A1S	XC

Client Sample ID: BH- 20 (2')

Lab Sample ID: 890-157-20

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			175	02/06/21 10:16	MC	XC
Total/NA	Analysis	8021B		1	178	02/07/21 09:57	PXS	XC
Total/NA	Prep	8015NM Prep			183	02/06/21 15:20	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 19:02	T1S	XC
Soluble	Leach	DI Leach			171	02/05/21 17:24	CC	XC
Soluble	Analysis	300.0		1	163	02/06/21 02:41	A1S	XC

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-21 (5')

Lab Sample ID: 890-157-21

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 10:11	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 20:44	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 03:15	A1S	XC

Client Sample ID: BH-22 (2')

Lab Sample ID: 890-157-22

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 11:06	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 22:04	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 03:32	A1S	XC

Client Sample ID: BH-23 (2')

Lab Sample ID: 890-157-23

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 12:14	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 22:25	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 03:38	A1S	XC

Client Sample ID: BH- 24 (2')

Lab Sample ID: 890-157-24

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 12:36	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 22:45	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 03:43	A1S	XC

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: BH-25 (2')

Lab Sample ID: 890-157-25

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 12:59	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 23:25	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 03:49	A1S	XC

Client Sample ID: BH-26 (2')

Lab Sample ID: 890-157-26

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 13:44	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/09/21 23:45	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 04:06	A1S	XC

Client Sample ID: BH-27 (2')

Lab Sample ID: 890-157-27

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 14:06	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 00:06	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 04:12	A1S	XC

Client Sample ID: BH-28 (2')

Lab Sample ID: 890-157-28

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 14:29	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 00:26	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 04:17	A1S	XC

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-1 (2')

Lab Sample ID: 890-157-29

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 14:51	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 00:46	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 04:23	A1S	XC

Client Sample ID: SW-2 (2')

Lab Sample ID: 890-157-30

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 15:14	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 01:06	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 04:29	A1S	XC

Client Sample ID: SW-3 (2')

Lab Sample ID: 890-157-31

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 15:36	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 01:26	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 04:34	A1S	XC

Client Sample ID: SW-4 (2')

Lab Sample ID: 890-157-32

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 15:58	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 01:46	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 04:52	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-5 (5')

Lab Sample ID: 890-157-33

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 16:21	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 02:07	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 04:57	A1S	XC

Client Sample ID: SW-6 (5')

Lab Sample ID: 890-157-34

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 16:43	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 02:27	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 05:14	A1S	XC

Client Sample ID: SW-7 (5')

Lab Sample ID: 890-157-35

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 17:06	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 03:07	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 05:20	A1S	XC

Client Sample ID: SW-8 (5')

Lab Sample ID: 890-157-36

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 17:51	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 03:27	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 05:26	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-9 (2')

Lab Sample ID: 890-157-37

Date Collected: 02/03/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 18:13	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 03:47	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 05:31	A1S	XC

Client Sample ID: SW-10 (2')

Lab Sample ID: 890-157-38

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 18:36	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 04:07	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 05:37	A1S	XC

Client Sample ID: SW-11 (2')

Lab Sample ID: 890-157-39

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 18:58	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 04:28	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 05:43	A1S	XC

Client Sample ID: SW-12 (2')

Lab Sample ID: 890-157-40

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			176	02/06/21 10:24	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 19:21	PXS	XC
Total/NA	Prep	8015NM Prep			185	02/06/21 15:38	MC	XC
Total/NA	Analysis	8015B NM		1	216	02/10/21 04:48	T1S	XC
Soluble	Leach	DI Leach			172	02/05/21 17:33	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 05:48	A1S	XC

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW- 13 (5')

Lab Sample ID: 890-157-41

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/06/21 20:32	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 07:30	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 06:23	A1S	XC

Client Sample ID: SW-14 (5')

Lab Sample ID: 890-157-42

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/06/21 21:39	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 08:31	UJ3K	XC
Soluble	Leach	DI Leach			207	02/09/21 13:01	MC	XC
Soluble	Analysis	300.0		20	218	02/10/21 03:26	JM	XC

Client Sample ID: SW-15 (5')

Lab Sample ID: 890-157-43

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/06/21 22:02	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 08:51	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 06:45	A1S	XC

Client Sample ID: SW-16 (5')

Lab Sample ID: 890-157-44

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/06/21 22:24	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 09:12	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 06:51	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW- 17 (2')

Lab Sample ID: 890-157-45

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/06/21 22:47	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 09:32	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 06:57	A1S	XC

Client Sample ID: SW-18 (2')

Lab Sample ID: 890-157-46

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/06/21 23:31	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 10:13	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 07:14	A1S	XC

Client Sample ID: SW-19 (2')

Lab Sample ID: 890-157-47

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			191	02/08/21 11:42	MC	XC
Total/NA	Analysis	8021B		1	189	02/08/21 21:13	PXS	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 10:34	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 07:19	A1S	XC

Client Sample ID: SW-20 (2')

Lab Sample ID: 890-157-48

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/07/21 00:16	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 10:54	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 07:25	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-21 (2')

Lab Sample ID: 890-157-49

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/07/21 00:39	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 11:15	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 07:31	A1S	XC

Client Sample ID: SW-22 (2')

Lab Sample ID: 890-157-50

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/07/21 01:01	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 11:35	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 07:36	A1S	XC

Client Sample ID: SW-23 (2')

Lab Sample ID: 890-157-51

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/07/21 01:24	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 11:56	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 07:42	A1S	XC

Client Sample ID: SW-24 (2')

Lab Sample ID: 890-157-52

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/07/21 01:46	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 12:16	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 07:59	A1S	XC

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Client Sample ID: SW-25 (5')

Lab Sample ID: 890-157-53

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/07/21 02:08	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 12:37	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 08:05	A1S	XC

Client Sample ID: SW-26 (5')

Lab Sample ID: 890-157-54

Date Collected: 02/04/21 00:00

Matrix: Solid

Date Received: 02/05/21 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			177	02/06/21 10:38	MC	XC
Total/NA	Analysis	8021B		1	190	02/07/21 02:31	MC	XC
Total/NA	Prep	8015NM Prep			223	02/09/21 18:09	MC	XC
Total/NA	Analysis	8015B NM		1	224	02/10/21 12:57	UJ3K	XC
Soluble	Leach	DI Leach			173	02/05/21 17:40	MC	XC
Soluble	Analysis	300.0		1	163	02/06/21 08:22	A1S	XC

Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Laboratory: Eurofins Xenco, Carlsbad

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05092	06-30-21

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	>C28-C35
8015B NM	8015NM Prep	Solid	Over C10-C28
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5030C	Solid	Total BTEX

Eurofins Xenco, Carlsbad

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XC
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XC
300.0	Anions, Ion Chromatography	MCAWW	XC
5030C	Purge and Trap	SW846	XC
8015NM Prep	Microextraction	SW846	XC
DI Leach	Deionized Water Leaching Procedure	ASTM	XC

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

Eurofins Xenco, Carlsbad

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-157-1	BH-1 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-2	BH-2 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-3	BH-3 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-4	BH-4 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-5	BH-5 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-6	BH-6 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-7	BH-7 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-8	BH-8 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-9	BH-9 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-10	BH-10 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-11	BH-11 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-12	BH-12 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-13	BH-13 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-14	BH-14 (5')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-15	BH-15 (5')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-16	BH-16 (5')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-17	BH-17 (5')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-18	BH- 18 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-19	BH-19 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-20	BH- 20 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-21	BH-21 (5')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-22	BH-22 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-23	BH-23 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-24	BH- 24 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-25	BH-25 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-26	BH-26 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-27	BH-27 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-28	BH-28 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-29	SW-1 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-30	SW-2 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-31	SW-3 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-32	SW-4 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-33	SW-5 (5')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-34	SW-6 (5')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-35	SW-7 (5')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-36	SW-8 (5')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-37	SW-9 (2')	Solid	02/03/21 00:00	02/05/21 13:10	
890-157-38	SW-10 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-39	SW-11 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-40	SW-12 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-41	SW- 13 (5')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-42	SW-14 (5')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-43	SW-15 (5')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-44	SW-16 (5')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-45	SW- 17 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-46	SW-18 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-47	SW-19 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-48	SW-20 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-49	SW-21 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-50	SW-22 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-51	SW-23 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-52	SW-24 (2')	Solid	02/04/21 00:00	02/05/21 13:10	
890-157-53	SW-25 (5')	Solid	02/04/21 00:00	02/05/21 13:10	

Eurofins Xenco, Carlsbad

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Medano VA State #10

Job ID: 890-157-1
SDG: 212C-MD-02338

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-157-54	SW-26 (5')	Solid	02/04/21 00:00	02/05/21 13:10	

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 501 West Wall Street, Ste 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-2946

890-157 Chain of Custody



2/10/2021

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Medano VA State #10		Project #: 212C-MD-02338	
Project Location: Lea County, NM		Project #: 212C-MD-02338	
Invoice to: EOG Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None		
	BH-1 (2)	2/3/2021		X			X		1	N
	BH-2 (2)	2/3/2021		X			X		1	N
	BH-3 (2)	2/3/2021		X			X		1	N
	BH-4 (2)	2/3/2021		X			X		1	N
	BH-5 (2)	2/3/2021		X			X		1	N
	BH-6 (2)	2/3/2021		X			X		1	N
	BH-7 (2)	2/3/2021		X			X		1	N
	BH-8 (2)	2/3/2021		X			X		1	N
	BH-9 (2)	2/3/2021		X			X		1	N
	BH-10 (2)	2/3/2021		X			X		1	N

LAB USE ONLY	REMARKS:
☐ STANDARD	
☒ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

LAB USE ONLY	ANALYSIS REQUEST (Circle or Specify Method No.)
	BTEX 8021B
	TPH TX1005 (Ext to C35)
	TPH 8015M (GRO - DRO - ORO - MRO)
	PAH 8270C
	Total Metals Ag As Ba Cd Cr Pb Se Hg
	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	TCLP Volatiles
	TCLP Semi Volatiles
	RCI
	GC/MS Vol. 8260B / 624
	GC/MS Semi. Vol. 8270C/625
	PCB's 8082 / 608
	NORM
	PLM (Asbestos)
	Chloride 300.0
	Chloride Sulfate TDS
	General Water Chemistry (see attached list)
	Anion/Cation Balance
	TPH 8015R
	Hold

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Analysis Request of Chain of Custody Record

Page 3 of 3



Tetra Tech, Inc.

 901 West Vahl Street, Ste 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-2946

Client Name: EOG		Site Manager: Britiany Long	
Project Name: Medano VA State #10		Project #: 212C-MD-02338	
Project Location: Lea County, NM		Project #: 212C-MD-02338	
Invoice to: EOG Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None		
	BH-21 (5)	2/4/2021		X			X		1	N
	BH-22 (2)	2/4/2021		X			X		1	N
	BH-23 (2)	2/4/2021		X			X		1	N
	BH-24 (2)	2/4/2021		X			X		1	N
	BH-25 (2)	2/4/2021		X			X		1	N
	BH-26 (2)	2/4/2021		X			X		1	N
	BH-27 (2)	2/4/2021		X			X		1	N
	BH-28 (2)	2/4/2021		X			X		1	N
	SW-1 (2)	2/3/2021		X			X		1	N
	SW-2 (2)	2/3/2021		X			X		1	N

Relinquished by: <i>Hand Mined</i>	Date: 2/5/21	Time: 12:05	Received by: <i>[Signature]</i>	Date: 2/5/21	Time: 12:05
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B
 TPH TX1005 (Ext to C35)
 TPH 8015M (GRO - DRO - ORO - MRO)
 PAH 8270C
 Total Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Volatiles
 TCLP Semi Volatiles
 RCI
 GC/MS Vol. 8260B / 624
 GC/MS Semi. Vol. 8270C/625
 PCB's 8082 / 608
 NORM
 PLM (Asbestos)
 Chloride 300.0
 Chloride Sulfate TDS
 General Water Chemistry (see attached list)
 Anion/Cation Balance
 TPH 8015R

Hold

LAB USE ONLY

REMARKS: ☐ STANDARD

Sample Temperature

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Custody Record

Page 4 of 6



Tetra Tech, Inc.

 301 West Wall Street, Ste 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-2946

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Medano VA State #10		Project #: 212C-MD-02338	
Project Location: Lea County, NM		Project #: 212C-MD-02338	
Invoice to: EOG Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
												YEAR: 2020
	SW-3 (2)	2/3/2021		X				X			1	N
	SW-4 (2)	2/3/2021		X				X			1	N
	SW-5 (5)	2/3/2021		X				X			1	N
	SW-6 (5)	2/3/2021		X				X			1	N
	SW-7 (5)	2/3/2021		X				X			1	N
	SW-8 (5)	2/3/2021		X				X			1	N
	SW-9 (2)	2/4/2021		X				X			1	N
	SW-10 (2)	2/4/2021		X				X			1	N
	SW-11 (2)	2/4/2021		X				X			1	N
	SW-12 (2)	2/4/2021		X				X			1	N

LAB USE ONLY	REMARKS:
☐ STANDARD	
☒ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

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(C/C) HAND DELIVERED FEDEX UPS Tracking #: 2-0118

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

501 West Yacht Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Medano VA State #10		Project #: 212C-MD-02338	
Project Location: Lea County, NM (county, state)			
Invoice to: EOG Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Comments:	
LAB #		LAB USE ONLY	
SAMPLE IDENTIFICATION		SAMPLING	
		YEAR: 2020	
		DATE	
		TIME	
		WATER	
		SOIL	
		HCL	
		HNO ₃	
		ICE	
		None	
		# CONTAINERS	
		FILTERED (Y/N)	
SW-13 (5')		2/4/2021	
SW-14 (5')		2/4/2021	
SW-15 (5')		2/4/2021	
SW-16 (5')		2/4/2021	
SW-17 (2')		2/4/2021	
SW-18 (2')		2/4/2021	
SW-19 (2')		2/4/2021	
SW-20 (2')		2/4/2021	
SW-21 (2')		2/4/2021	
SW-22 (2')		2/4/2021	
Relinquished by: Ezequiel Moreno		Date: 2/5/21 Time: 12:05	
Relinquished by:		Date: Time:	
Relinquished by:		Date: Time:	
Relinquished by:		Date: Time:	
LAB USE ONLY		LAB USE ONLY	
REMARKS:		STANDARD	
RUSH: Same Day 24 hr 48 hr 72 hr		Rush Charges Authorized	
Special Report Limits or TRRP Report			
BTX 8021B		TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)		PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles		TCLP Semi Volatiles	
RCI		GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608	
NORM		PLM (Asbestos)	
Chloride 300.0		Chloride Sulfate TDS	
General Water Chemistry (see attached list)		Anion/Cation Balance	
TPH 8015R			
Hold			

ORIGINAL COPY

Page 6 of 6

Tetra Tech, Inc.

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

Client Name: **EOG** Site Manager: **Brittany Long**

Brittany Long

Project Name: Medano VA State #10

Project Location:
(county, state) **Lea County, NM**

Project #:

212C-MD-02338

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:[illegible]

ANALYSIS REQUEST

(Circle or Specify Method No.)

Hold

Page 100 of 101

2/10/2021

Released to Imaging: 8/12/2021 8:25:45 AM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-157-1

SDG Number: 212C-MD-02338

Login Number: 157

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-214-1

Laboratory Sample Delivery Group: 212C-MD-02338
Client Project/Site: EOG Medano VA State #10

For:

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

Attn: Clair Gonzales

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
2/24/2021 4:26:57 PM

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

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Laboratory Job ID: 890-214-1
SDG: 212C-MD-02338

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Qualifiers

Subcontract

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Job ID: 890-214-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-214-1****Receipt**

The sample was received on 2/22/2021 12:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following sample was received at the laboratory without a sample collection time documented on the chain of custody: SW-30 (1') (890-214-1). The client was contacted, and the laboratory was instructed to <CHOOSE_ONE> use a sample collection time of 12:00am OR <EXPLANATION_REQUIRED>

Samples logged in as: 00:00

Subcontract Lab non-Sister Lab

See attached subcontract report.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Client Sample ID: SW-30 (1')

Lab Sample ID: 890-214-1

Date Collected: 02/22/21 00:00

Matrix: Solid

Date Received: 02/22/21 12:50

Method: 300.0 - Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.44		4.97		mg/kg		02/23/21 17:00	02/24/21 01:52	1

Method: 8015 NM - TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		02/23/21 12:00	02/23/21 19:17	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		02/23/21 12:00	02/23/21 19:17	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		02/23/21 12:00	02/23/21 19:17	1
Total TPH	<49.8	U	49.8		mg/kg		02/23/21 12:00	02/23/21 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 135	02/23/21 12:00	02/23/21 19:17	1
o-Terphenyl	120		70 - 135	02/23/21 12:00	02/23/21 19:17	1

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		02/23/21 13:00	02/23/21 14:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		02/23/21 13:00	02/23/21 14:19	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		02/23/21 13:00	02/23/21 14:19	1
o-Xylene	<0.00202	U	0.00202		mg/kg		02/23/21 13:00	02/23/21 14:19	1
Toluene	<0.00202	U	0.00202		mg/kg		02/23/21 13:00	02/23/21 14:19	1
Total BTEX	<0.00202	U	0.00202		mg/kg		02/23/21 13:00	02/23/21 14:19	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		02/23/21 13:00	02/23/21 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	85		70 - 130	02/23/21 13:00	02/23/21 14:19	1
4-Bromofluorobenzene	113		70 - 130	02/23/21 13:00	02/23/21 14:19	1

Eurofins Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Method: 8015 NM - TPH - SW846 8015B TPH ORO

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO (70-135)	OTPH (70-135)
890-214-1	SW-30 (1')	107	120
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Matrix: SOIL

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (70-130)	
7721795-1-BKS	Lab Control Sample	99	
7721795-1-BLK	Method Blank	106	
7721795-1-BSD	Lab Control Sample Dup	104	
Surrogate Legend			
BFB = 4-Bromofluorobenzene			

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (70-130)	DFBZ (70-130)
890-214-1	SW-30 (1')	113	85
Surrogate Legend			
BFB = 4-Bromofluorobenzene			
DFBZ = 1,4-Difluorobenzene			

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Method: 300.0 - Chloride - EPA 300.0

Lab Sample ID: 7721876-1-BLK

Matrix: SOIL

Analysis Batch: 3151606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3151606_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		02/23/21 17:00	02/24/21 01:04	1

Lab Sample ID: 7721876-1-BKS

Matrix: SOIL

Analysis Batch: 3151606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3151606_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	244		mg/kg		98	80 - 120

Lab Sample ID: 7721876-1-BSD

Matrix: SOIL

Analysis Batch: 3151606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3151606_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	245		mg/kg		98	80 - 120	0	20

Method: 8015 NM - TPH - SW846 8015B TPH ORO

Lab Sample ID: 7721866-1-BLK

Matrix: SOIL

Analysis Batch: 3151631

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3151631_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		02/23/21 12:00	02/23/21 12:46	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		02/23/21 12:00	02/23/21 12:46	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		02/23/21 12:00	02/23/21 12:46	1

Lab Sample ID: 7721866-1-BKS

Matrix: SOIL

Analysis Batch: 3151631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3151631_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	865		mg/kg		87	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	907		mg/kg		91	70 - 135

Lab Sample ID: 7721866-1-BSD

Matrix: SOIL

Analysis Batch: 3151631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3151631_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics (DRO)	1000	904		mg/kg		90	70 - 135	4	20
Gasoline Range Hydrocarbons (GRO)	1000	975		mg/kg		98	70 - 135	7	20

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Lab Sample ID: 7721795-1-BLK

Matrix: SOIL

Analysis Batch: 3151523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3151523_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		02/23/21 08:00	02/23/21 11:24	1
Ethylbenzene	<.002	U	.002		mg/kg		02/23/21 08:00	02/23/21 11:24	1
m,p-Xylenes	<.004	U	.004		mg/kg		02/23/21 08:00	02/23/21 11:24	1
o-Xylene	<.002	U	.002		mg/kg		02/23/21 08:00	02/23/21 11:24	1
Toluene	<.002	U	.002		mg/kg		02/23/21 08:00	02/23/21 11:24	1

Surrogate	BLANK %Recovery	BLANK Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		70 - 130	02/23/21 08:00	02/23/21 11:24	1

Lab Sample ID: 7721795-1-BKS

Matrix: SOIL

Analysis Batch: 3151523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3151523_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.103		mg/kg		103	70 - 130
Ethylbenzene	.1	0.104		mg/kg		104	71 - 129
m,p-Xylenes	.2	0.207		mg/kg		104	70 - 135
o-Xylene	.1	0.101		mg/kg		101	71 - 133
Toluene	.1	0.0985		mg/kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		70 - 130

Lab Sample ID: 7721795-1-BSD

Matrix: SOIL

Analysis Batch: 3151523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3151523_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	.1	0.0997		mg/kg		100	70 - 130	3	35
Ethylbenzene	.1	0.101		mg/kg		101	71 - 129	3	35
m,p-Xylenes	.2	0.201		mg/kg		101	70 - 135	3	35
o-Xylene	.1	0.0987		mg/kg		99	71 - 133	2	35
Toluene	.1	0.0947		mg/kg		95	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130

Eurofins Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Subcontract

Analysis Batch: 3151523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-214-1	SW-30 (1')	Total/NA	Solid	8021B - BTEX	3151523_P
7721795-1-BLK	Method Blank	Total/NA	SOIL	8021B - BTEX	3151523_P
7721795-1-BKS	Lab Control Sample	Total/NA	SOIL	8021B - BTEX	3151523_P
7721795-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8021B - BTEX	3151523_P

Analysis Batch: 3151606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-214-1	SW-30 (1')	Total/NA	Solid	300.0 - Chloride	3151606_P
7721876-1-BLK	Method Blank	Total/NA	SOIL	300.0 - Chloride	3151606_P
7721876-1-BKS	Lab Control Sample	Total/NA	SOIL	300.0 - Chloride	3151606_P
7721876-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	300.0 - Chloride	3151606_P

Analysis Batch: 3151631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-214-1	SW-30 (1')	Total/NA	Solid	8015 NM - TPH	3151631_P
7721866-1-BLK	Method Blank	Total/NA	SOIL	8015 NM - TPH	3151631_P
7721866-1-BKS	Lab Control Sample	Total/NA	SOIL	8015 NM - TPH	3151631_P
7721866-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015 NM - TPH	3151631_P

Prep Batch: 3151523_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-214-1	SW-30 (1')	Total/NA	Solid	SW5035A	
7721795-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7721795-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7721795-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	

Prep Batch: 3151606_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-214-1	SW-30 (1')	Total/NA	Solid	E300P	
7721876-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7721876-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7721876-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3151631_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-214-1	SW-30 (1')	Total/NA	Solid	SW8015P	
7721866-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7721866-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7721866-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Client Sample ID: SW-30 (1')**Lab Sample ID: 890-214-1****Date Collected: 02/22/21 00:00****Matrix: Solid****Date Received: 02/22/21 12:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	E300P		1	3151606_P	02/23/21 17:00		XM
Total/NA	Analysis	300.0 - Chloride		1	3151606	02/24/21 01:52	CHE	XM
Total/NA	Prep	SW8015P		1	3151631_P	02/23/21 12:00		XM
Total/NA	Analysis	8015 NM - TPH		1	3151631	02/23/21 19:17	ARM	XM
Total/NA	Prep	SW5035A		1	3151523_P	02/23/21 13:00		XM
Total/NA	Analysis	8021B - BTEX		1	3151523	02/23/21 14:19	MNR	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Method	Method Description	Protocol	Laboratory
300.0	EPA 300.0	EPA	XM
8015B	SW846 8015B TPH ORO	SW846	XM
8021	SW846 8021 Volatile Organic Compounds	SW846	XM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-214-1
SDG: 212C-MD-02338

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-214-1	SW-30 (1')	Solid	02/22/21 00:00	02/22/21 12:50	

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

(432) 682-3946

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Medano VA State #10

Project Location

Lea County, NM

Project #:

212C-MD-02338

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

[illegible]

890-214 Chain of Custody

Page 1 of 1

2/24/2021

Page 14 of 15

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-214-1

SDG Number: 212C-MD-02338

Login Number: 214

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-215-1

Laboratory Sample Delivery Group: 212C-MD-02338
Client Project/Site: EOG Medano VA State #10

For:

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

Attn: Clair Gonzales

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
2/24/2021 4:28:02 PM

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

LINKS

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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.

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Laboratory Job ID: 890-215-1
SDG: 212C-MD-02338

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Qualifiers

Subcontract

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Job ID: 890-215-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-215-1****Receipt**

The samples were received on 2/22/2021 1:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: BH-51 (1') (890-215-1) and BH-52 (1') (890-215-2). The client was contacted, and the laboratory was instructed to <CHOOSE_ONE> use a sample collection time of 12:00am OR <EXPLANATION_REQUIRED>

Samples logged as: 00:00

Subcontract Lab non-Sister Lab

See attached subcontract report.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Client Sample ID: BH-51 (1')

Lab Sample ID: 890-215-1

Date Collected: 02/22/21 00:00

Matrix: Solid

Date Received: 02/22/21 13:21

Method: 300.0 - Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		5.02		mg/kg		02/23/21 17:00	02/24/21 01:47	1

Method: 8015 NM - TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		02/23/21 12:00	02/23/21 19:39	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		02/23/21 12:00	02/23/21 19:39	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		02/23/21 12:00	02/23/21 19:39	1
Total TPH	<50.0	U	50.0		mg/kg		02/23/21 12:00	02/23/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 135	02/23/21 12:00	02/23/21 19:39	1
o-Terphenyl	118		70 - 135	02/23/21 12:00	02/23/21 19:39	1

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		02/23/21 13:00	02/23/21 14:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		02/23/21 13:00	02/23/21 14:40	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		02/23/21 13:00	02/23/21 14:40	1
o-Xylene	<0.00198	U	0.00198		mg/kg		02/23/21 13:00	02/23/21 14:40	1
Toluene	<0.00198	U	0.00198		mg/kg		02/23/21 13:00	02/23/21 14:40	1
Total BTEX	<0.00198	U	0.00198		mg/kg		02/23/21 13:00	02/23/21 14:40	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		02/23/21 13:00	02/23/21 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	89		70 - 130	02/23/21 13:00	02/23/21 14:40	1
4-Bromofluorobenzene	89		70 - 130	02/23/21 13:00	02/23/21 14:40	1

Client Sample ID: BH-52 (1')

Lab Sample ID: 890-215-2

Date Collected: 02/22/21 00:00

Matrix: Solid

Date Received: 02/22/21 13:21

Method: 300.0 - Chloride - EPA 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		4.95		mg/kg		02/23/21 17:00	02/24/21 02:08	1

Method: 8015 NM - TPH - SW846 8015B TPH ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		02/23/21 12:00	02/23/21 20:01	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		02/23/21 12:00	02/23/21 20:01	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		02/23/21 12:00	02/23/21 20:01	1
Total TPH	<49.8	U	49.8		mg/kg		02/23/21 12:00	02/23/21 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135	02/23/21 12:00	02/23/21 20:01	1
o-Terphenyl	122		70 - 135	02/23/21 12:00	02/23/21 20:01	1

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		02/23/21 13:00	02/23/21 15:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		02/23/21 13:00	02/23/21 15:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		02/23/21 13:00	02/23/21 15:00	1
o-Xylene	<0.00199	U	0.00199		mg/kg		02/23/21 13:00	02/23/21 15:00	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Client Sample ID: BH-52 (1')

Lab Sample ID: 890-215-2

Date Collected: 02/22/21 00:00

Matrix: Solid

Date Received: 02/22/21 13:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/kg		02/23/21 13:00	02/23/21 15:00	1
Total BTEX	<0.00199	U	0.00199		mg/kg		02/23/21 13:00	02/23/21 15:00	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		02/23/21 13:00	02/23/21 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	95		70 - 130				02/23/21 13:00	02/23/21 15:00	1
4-Bromofluorobenzene	111		70 - 130				02/23/21 13:00	02/23/21 15:00	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Method: 8015 NM - TPH - SW846 8015B TPH ORO

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO (70-135)	OTPH (70-135)
890-215-1	BH-51 (1')	93	118
890-215-2	BH-52 (1')	101	122
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Matrix: SOIL

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (70-130)	
7721795-1-BKS	Lab Control Sample	99	
7721795-1-BLK	Method Blank	106	
7721795-1-BSD	Lab Control Sample Dup	104	
Surrogate Legend			
BFB = 4-Bromofluorobenzene			

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB (70-130)	DFBZ (70-130)
890-215-1	BH-51 (1')	89	89
890-215-2	BH-52 (1')	111	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene			
DFBZ = 1,4-Difluorobenzene			

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Method: 300.0 - Chloride - EPA 300.0

Lab Sample ID: 7721876-1-BLK

Matrix: SOIL

Analysis Batch: 3151606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3151606_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		02/23/21 17:00	02/24/21 01:04	1

Lab Sample ID: 7721876-1-BKS

Matrix: SOIL

Analysis Batch: 3151606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3151606_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	244		mg/kg		98	80 - 120

Lab Sample ID: 7721876-1-BSD

Matrix: SOIL

Analysis Batch: 3151606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3151606_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	245		mg/kg		98	80 - 120	0	20

Method: 8015 NM - TPH - SW846 8015B TPH ORO

Lab Sample ID: 7721866-1-BLK

Matrix: SOIL

Analysis Batch: 3151631

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3151631_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		02/23/21 12:00	02/23/21 12:46	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		02/23/21 12:00	02/23/21 12:46	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		02/23/21 12:00	02/23/21 12:46	1

Lab Sample ID: 7721866-1-BKS

Matrix: SOIL

Analysis Batch: 3151631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3151631_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	865		mg/kg		87	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	907		mg/kg		91	70 - 135

Lab Sample ID: 7721866-1-BSD

Matrix: SOIL

Analysis Batch: 3151631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3151631_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics (DRO)	1000	904		mg/kg		90	70 - 135	4	20
Gasoline Range Hydrocarbons (GRO)	1000	975		mg/kg		98	70 - 135	7	20

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Method: 8021B - BTEX - SW846 8021 Volatile Organic Compounds

Lab Sample ID: 7721795-1-BLK

Matrix: SOIL

Analysis Batch: 3151523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3151523_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		02/23/21 08:00	02/23/21 11:24	1
Ethylbenzene	<.002	U	.002		mg/kg		02/23/21 08:00	02/23/21 11:24	1
m,p-Xylenes	<.004	U	.004		mg/kg		02/23/21 08:00	02/23/21 11:24	1
o-Xylene	<.002	U	.002		mg/kg		02/23/21 08:00	02/23/21 11:24	1
Toluene	<.002	U	.002		mg/kg		02/23/21 08:00	02/23/21 11:24	1

Surrogate	BLANK %Recovery	BLANK Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		70 - 130	02/23/21 08:00	02/23/21 11:24	1

Lab Sample ID: 7721795-1-BKS

Matrix: SOIL

Analysis Batch: 3151523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3151523_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.103		mg/kg		103	70 - 130
Ethylbenzene	.1	0.104		mg/kg		104	71 - 129
m,p-Xylenes	.2	0.207		mg/kg		104	70 - 135
o-Xylene	.1	0.101		mg/kg		101	71 - 133
Toluene	.1	0.0985		mg/kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		70 - 130

Lab Sample ID: 7721795-1-BSD

Matrix: SOIL

Analysis Batch: 3151523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3151523_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	.1	0.0997		mg/kg		100	70 - 130	3	35
Ethylbenzene	.1	0.101		mg/kg		101	71 - 129	3	35
m,p-Xylenes	.2	0.201		mg/kg		101	70 - 135	3	35
o-Xylene	.1	0.0987		mg/kg		99	71 - 133	2	35
Toluene	.1	0.0947		mg/kg		95	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Subcontract

Analysis Batch: 3151523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-215-1	BH-51 (1')	Total/NA	Solid	8021B - BTEX	3151523_P
890-215-2	BH-52 (1')	Total/NA	Solid	8021B - BTEX	3151523_P
7721795-1-BLK	Method Blank	Total/NA	SOIL	8021B - BTEX	3151523_P
7721795-1-BKS	Lab Control Sample	Total/NA	SOIL	8021B - BTEX	3151523_P
7721795-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8021B - BTEX	3151523_P

Analysis Batch: 3151606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-215-1	BH-51 (1')	Total/NA	Solid	300.0 - Chloride	3151606_P
890-215-2	BH-52 (1')	Total/NA	Solid	300.0 - Chloride	3151606_P
7721876-1-BLK	Method Blank	Total/NA	SOIL	300.0 - Chloride	3151606_P
7721876-1-BKS	Lab Control Sample	Total/NA	SOIL	300.0 - Chloride	3151606_P
7721876-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	300.0 - Chloride	3151606_P

Analysis Batch: 3151631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-215-1	BH-51 (1')	Total/NA	Solid	8015 NM - TPH	3151631_P
890-215-2	BH-52 (1')	Total/NA	Solid	8015 NM - TPH	3151631_P
7721866-1-BLK	Method Blank	Total/NA	SOIL	8015 NM - TPH	3151631_P
7721866-1-BKS	Lab Control Sample	Total/NA	SOIL	8015 NM - TPH	3151631_P
7721866-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015 NM - TPH	3151631_P

Prep Batch: 3151523_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-215-1	BH-51 (1')	Total/NA	Solid	SW5035A	
890-215-2	BH-52 (1')	Total/NA	Solid	SW5035A	
7721795-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7721795-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7721795-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	

Prep Batch: 3151606_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-215-1	BH-51 (1')	Total/NA	Solid	E300P	
890-215-2	BH-52 (1')	Total/NA	Solid	E300P	
7721876-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7721876-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7721876-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3151631_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-215-1	BH-51 (1')	Total/NA	Solid	SW8015P	
890-215-2	BH-52 (1')	Total/NA	Solid	SW8015P	
7721866-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7721866-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7721866-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Client Sample ID: BH-51 (1')

Lab Sample ID: 890-215-1

Date Collected: 02/22/21 00:00

Matrix: Solid

Date Received: 02/22/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	E300P		1	3151606_P	02/23/21 17:00		XM
Total/NA	Analysis	300.0 - Chloride		1	3151606	02/24/21 01:47	CHE	XM
Total/NA	Prep	SW8015P		1	3151631_P	02/23/21 12:00		XM
Total/NA	Analysis	8015 NM - TPH		1	3151631	02/23/21 19:39	ARM	XM
Total/NA	Prep	SW5035A		1	3151523_P	02/23/21 13:00		XM
Total/NA	Analysis	8021B - BTEX		1	3151523	02/23/21 14:40	MNR	XM

Client Sample ID: BH-52 (1')

Lab Sample ID: 890-215-2

Date Collected: 02/22/21 00:00

Matrix: Solid

Date Received: 02/22/21 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	E300P		1	3151606_P	02/23/21 17:00		XM
Total/NA	Analysis	300.0 - Chloride		1	3151606	02/24/21 02:08	CHE	XM
Total/NA	Prep	SW8015P		1	3151631_P	02/23/21 12:00		XM
Total/NA	Analysis	8015 NM - TPH		1	3151631	02/23/21 20:01	ARM	XM
Total/NA	Prep	SW5035A		1	3151523_P	02/23/21 13:00		XM
Total/NA	Analysis	8021B - BTEX		1	3151523	02/23/21 15:00	MNR	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Method	Method Description	Protocol	Laboratory
300.0	EPA 300.0	EPA	XM
8015B	SW846 8015B TPH ORO	SW846	XM
8021	SW846 8021 Volatile Organic Compounds	SW846	XM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: EOG Medano VA State #10

Job ID: 890-215-1
SDG: 212C-MD-02338

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-215-1	BH-51 (1')	Solid	02/22/21 00:00	02/22/21 13:21	
890-215-2	BH-52 (1')	Solid	02/22/21 00:00	02/22/21 13:21	

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Tetra Tech, Inc.

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

890-215 Chain of Custody

Page _____ of _____

2/24/2021

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-215-1

SDG Number: 212C-MD-02338

Login Number: 215

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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: Robert Hamlet Date: 8/12/2021

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: Robert Hamlet Date: 8/12/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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 25279

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 25279
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2027234034 MEDANO VA STATE #10, thank you. This closure is approved.	8/12/2021