	Report Type: Closure Report 2RP-5464									
General Site Information:										
Site:	Site: Sibyl #1 Fed Com #1									
Company:		EOG Resource	S							
Section, Townsh	ip and Range	Unit H	Jnit H Sec 01 T 18S R 30E							
County:		Eddy County								
GPS:			2.778010			-103.9	20353			
Surface Owner:		Federal			00.000 /					
Directions:		From the intersect turn west onto learners					CR 222 for 2.40 miles, location			
				2.20 111100, 10		0.00 111100 10				
Release Data:		-								
Date Released:		5/16/2019								
Type Release:	·	Oil & Produced Water								
Source of Contarr Fluid Released:	nination:	Vent line								
Fluids Recovered	•	1 bbl oil & 6 bbl water 1 bbl oil & 5 bbl water								
Marraa			1			1				
Name:	Todd Wells				Clair Gonza					
Company:	EOG Resources				Tetra Tech					
Address:	5509 Champions Dr			901 W. Wall St.						
		Ste 100								
City:	Midland Texas, 79706			Midland, Texas						
Phone number:	<mark>(432) 258-4346</mark>			(432) 682-4	559					
Fax:										
Email:	Todd_Wells@eog	resources.com			Clair.Gonz	ales@tetrat	<u>ech.com</u>			

Site Characterization	
Depth to Groundwater:	80'

Recommended Remedial Action Levels (RRALs)							
Benzene	Total BTEX	TPH (GRO+DRO+MRO)	Chlorides				
10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg				



May 7, 2021

Mr. Mike Bratcher District Supervisor Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

#### Re: Closure Report for the EOG Resources, Sibyl #1 Federal Com #1, Unit H, Section 01, Township 18 South, Range 30 East, Eddy County, New Mexico. 2RP-5464 NAB1915140568

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to supervise the remediation of a release that occurred at the Sibyl #1 Federal Com #1, Unit H, Section 01, Township 18 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.778010°, -103.920353°. 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 May 16, 2019. The release was caused by the well flowing up through the tubing into the separator and out the vent pipe. Approximately 1 barrel of oil and 6 barrels of produced water were released and approximately 1 barrel of oil and 5 barrels of produced water were recovered. The release impacted an area in the pasture measuring approximately 140' x35' and 65' x 35'. A copy of the C-141 Form is included in Appendix A.

#### Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The site is located in a low karst potential area. No water wells were listed within Section 01 on the New Mexico Office of the State Engineer's (NMOSE) database, the Geology and Groundwater Resources of Eddy County (Report 3), or the USGS National Water Information Database. The nearest well is listed on the NMOSE data base in Section 20, Township 17 South, Range 30 East, approximately 4.92 miles northwest of the site and has a reported depth to groundwater of 80 feet below surface. The groundwater data is shown in Appendix B.

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705 Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com



#### 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 based on the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + MRO). Additionally, the proposed RRAL for chlorides is 600 mg/kg.

#### Soil Assessment

On June 5, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of eight (8) auger holes (AH-1 through AH-8) were installed in the release area to total depths ranging from 2-2.5' to 5-5.5' below surface. Soil samples were collected and submitted to the laboratory 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 release area and sample locations are shown on Figure 3.

Referring to Table 1, all samples showed benzene, total BTEX, and chloride concentrations below the RRALs. However, the areas of AH-1, AH-5, AH-6, AH-7 and AH-8 showed a shallow TPH impact at 0-1' below surface, which declined with depth to below the RRALs at 1'-1.5' below surface.

#### **At Risk Remediation Activities**

On July 11, 2019 through July 17, 2019, Tetra Tech personnel were onsite to supervise the remediation activities. The areas of AH-1, AH-5, AH-6, and AH-7 were excavated to depths between 1.5'-2.0' below surface. Composite confirmation samples were collected every 200 square feet for a total of twenty bottom hole samples (Bottom Hole 1 through Bottom Hole 20) and eleven sidewall samples (North Sidewall 1, North Sidewall 2, East Sidewall 1, East Sidewall 2, East Sidewall 3, South Sidewall 1, South Sidewall 2, South Sidewall 3, West Sidewall 1, West Sidewall 2, and West Sidewall 3). Soil samples were collected and submitted to the laboratory 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 excavation areas and depths are shown on Figure 4.

Referring to Table 1, all final confirmation samples with the exception of bottom hole (BH-6) collected showed benzene, total BTEX, TPH, and chloride concentrations below the RRALs. The area of bottom hole (BH-6), showed a TPH concentration of 144.2 mg/kg, at a depth of 2.0' below surface, this exceedance wasn't realized until April of 2021. Tetra Tech resampled the area of bottom hole (BH-6) with a 5 point composite sample at 2.0'-2.5' below surface. The sample collected showed benzene, total BTEX, TPH, and chloride concentrations below RRAL, showing natural attenuation over time.



Approximately 660 cubic yards of contaminated soil was transported offsite for proper disposal and the areas were backfilled with clean material to surface grade.

#### Conclusion

Based on the remediation activities performed and laboratory data, EOG requests closure of this spill issue. 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

Brittany Long, Project Manager

galos

Clair Gonzales, P.G. Senior Project Manager

# Figures

**Released to Imaging: 8/18/2021 9:18:43 AM** 





1.mxd

older/212C-MD-01787 SYBIL 1 FED COM 1\MXD/212C-MD-01787 SIBYL#1 FED COM #1 UNIT H FIG.

Received by OCD: 5/7/2021 11:17:33 AM

#### Page 7 of 159

FIGURE 2

212C-MD-01787



0 1,000 2,000 Approximate Scale in Feet

Service Layer Credits: Copyright:® 2013 National Geographic Society, Leubed Released to Imaging: 8/18/2021 9:18:43 AM





•

# Tables

**Released to Imaging: 8/18/2021 9:18:43 AM** 

#### Table 1 EOG Sibyl #1 Fed Com #1 Eddy County, New Mexico

Released to Imaging: 8/18/2021 9:18:43 AM

.

			1												
Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil S	Status		TPH (	mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene (mg/kg)	Total BTEX	Chloride (mg/kg)
					Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)	
AH-1	6/5/2019	0-1	2.0	Х		<15.0	108	<15.0	108	<0.00200	<0.00200	<0.00200	< 0.00200	<0.00200	50.8
	"	1-1.5	2.0	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	0.00228	0.00271	0.00499	<5.02
	"	2-2.5	2.0	Х		-	-	-	-	-	-	-	-	-	<5.00
	"	3-3.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.99
		4-4.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.96
		5-5.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.97
AH-2	6/5/2019	0-1	2.0	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<5.00
	"	1-1.5	2.0	Х		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<4.97
	"	2-2.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.99
	"	3-3.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.96
AH-3	6/5/2019	0-1	2.0	Х		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	47.6
	"	1-1.5	2.0	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	< 0.00200	<0.00200	143
	"	2-2.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.97
	"	3-3.5	2.0	Х		-	-	-	-	-	-	-	-	-	<5.03
	"	4-4.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.98
	"	5-5.5	2.0	Х		-	-	-	-	-	-	-	-	-	11.9
AH-4	6/5/2019	0-1	2.0	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.98
	"	1-1.5	2.0	X		<15.0	<15.0	<15.0	<15.0	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<4.96
	"	2-2.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.96
	"	3-3.5	2.0	Х		-	-	-	-	-	-	-	-	-	<5.02
	"	4-4.5	2.0	Х		-	-	-	-	-	-	-	-	-	<5.03
	"	5-5.5	2.0	Х		-	-	-	-	-	-	-	-	-	<4.96
AH-5	6/5/2019	0-1	2.0	Х		<14.9	135	<14.9	135	< 0.00202	< 0.00202	0.00265	0.00743	0.0101	9.09
	"	1-1.5	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	0.00200	0.00210	0.00410	5.10
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.99
	"	3-3.5	2.0	X		-	-	-	-	_	_	-	-	-	21.5
	"	4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	15.9
	"	5-5.5	2.0	Х		-	-	-	-	-	-	-	-	-	52.6
AH-6	6/5/2019	0-1	2.0	Х	1	<15.0	114	<15.0	114	< 0.00201	< 0.00201	<0.00201	< 0.00201	< 0.00201	15.1
	0/3/2019	1-1.5	2.0	X		<15.0	24.3	<15.0	24.3	< 0.00201	<0.00201	0.00201	0.00201	0.00201	<5.00
	"	2-2.5	2.0	X		- 15.0	24.3	- 13.0	-	<0.00200	<0.00200	0.00200	-	0.00410	<3.00 53.6
AH-7	0/5/00/0		· · · · ·				1 0 0 0			0.00400	0.00400			0.00400	
Ап-/	6/5/2019	0-1	2.0	X		<15.0	1,260	107	1,370	<0.00198	<0.00198	<0.00198	< 0.00198	< 0.00198	29.5
		1-1.5	2.0	X X		<15.0	296	43.8	340	<0.00200	<0.00200	0.00200	0.00210	0.00410	95.7
		2-2.5 3-3.5	2.0	X		-	-	-	-	-	-	-	-	-	33.9
		3-3.5 4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	162 125
		4-4.5 5-5.5	2.0	X		-	-	-	-	-	-	-	-	-	125
AH-8	6/5/2019	0-1	2.0	Х		<15.0	1,650	115	1,770	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	16.7
		1-1.5	2.0	Х		<15.0	61.6	<15.0	61.6	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	35.1
		2-2.5	2.0	Х		-	-	-	-	-	-	-	-	-	224
		3-3.5	2.0	Х		-	-	-	-	-	-	-	-	-	175
		4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	52.6
		5-5.5	2.0	Х		-	-	-	-	-	-	-	-	-	12.0

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status			(mg/kg)	Tatal	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
Bottom Hole 1	7/16/2019	-	2.0	In-Situ Remo	<10.0	<b>DRO</b> <10.0	ORO <10.0	Total <10.0	<0.050	<0.050	<0.050	<0.150	< 0.300	<16.0
Bottom Hole 2	7/16/1019	-	2.0	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160.0
Bottom Hole 3	7/16/2019	-	2.0	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 4	7/16/2019	-	2.0	х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160.0
Bottom Hole 5	7/16/2019	-	2.0	Х	<10.0	17.3	<10.0	17.3	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	7/16/2019	-	2.0	Х	<10.0	121	23.2	144.2	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 6	5/3/2021	-	2.0-2.5	Х	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	19.3
Bottom Hole 7	7/16/2019	-	2.0	Х	<10.0	77.7	19.4	97.1	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 8	7/16/2019	-	2.0	Х	<10.0	38.9	<10.0	38.9	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 9	7/16/2019	-	2.0	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 10	7/16/2019	-	2.0	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 11	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 12	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 13	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 14	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 15	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 16	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 17	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 18	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 19	7/16/2019	-	1.5	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 20	7/16/2019	-	2.0	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
NSW - 1	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
NSW - 2	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SSW - 1	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SSW - 2	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SSW - 3	7/16/2019	-	-	Х	<10.0	22.8	<10.0	22.8	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
ESW - 1	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
ESW - 2	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
ESW - 3	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160.0
WSW - 1	7/16/2019	-	-	Х	<10.0	65.7	17.8	<0.050	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
WSW - 2	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
WSW - 3	7/16/2019	-	-	Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
(-)	Not Analyzed Exceedance													

Not Analyzed Exceedance

.

Received by OCD: 5/7/2021 11:17:33 AM

•

# Photos

**Released to Imaging: 8/18/2021 9:18:43 AM** 



Facing South, viewing impacted pasture area



Facing North, viewing spill source, and impacted pasture

П

**TETRA TECH** 



Facing East, viewing impacted pasture



Facing West, viewing impacted area on the pad



Facing north, viewing excavated area in the pasture



Facing West, viewing excavated area in the pasture



Facing south, viewing excavated area in the pasture



Facing East, viewing excavated area in the pasture

•

# Appendix A

Released to Imaging: 8/18/2021 9:18:43 AM

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 Page 19 of 159

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

Incident ID	NAB1915140568
District RP	2RP-5464
Facility ID	
Application ID	pAB1915140325

# **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) NAB1915140568
Contact mailing address 5509 Champions Drive Midland, TX 79706	

### **Location of Release Source**

Latitude 32.777970°

*Longitude -103.920616°* (*NAD 83 in decimal degrees to 5 decimal places*)

Site Name Sibyl #1 Fed Com #1	Site Type EOG Facility
Date Release Discovered 5/16/19	API# (if applicable) 30-015-31276

Unit Letter	Section	Township	Range	County
Ĩ	1	18S	30E	Eddy
 В				

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) 1	Volume Recovered (bbls) 1
Produced Water	Volume Released (bbls) 6	Volume Recovered (bbls) 5
	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)
	well flowed up the tubing, into the separator and out of t and oil were released from the vent line and 6 bbls was n	the vent line. The casing was shut in. Approximately 7 recovered.

Incident ID	NAB1915140568
District RP	2RP-5464
Facility ID	
Application ID	pAB1915140325

If YES, for what reason(s) does the responsible party consider this a major release?
otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## **Initial Response**

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

 $\square$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: <u>Todd Wells</u>	Title:Environmental Specialist	
Signature: Todd Wells	Date: <u>5-30-19</u>	
email: <u>Todd_Wells@eogresources.com</u>	Telephone: (432) 686-3613	
OCD Only Received by: Amalia Bustamante	Date:5/31/2019	

Page 2

Received by OCD: 5/7/2021 11:17:33 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 21 of 159
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 <b>not</b> 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.

<b>Received by OCD: 5/7/20</b> Form C-141	21 11:17:33 AM State of New Mexico	Page 22 of 159
Page 4	Oil Conservation Division	Incident ID District RP
5		Facility ID
		Application ID
regulations all operators ar public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature:	The required to report and/or file certain release notifing the number of a C-141 report by the OC igate and remediate contamination that pose a thread of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report does not relieve the operator of research and the number of a C-141 report d	est of my knowledge and understand that pursuant to OCD rules and cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have t to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws Title: Date: Telephone:
OCD Only		
Received by:		Date:

Page 6

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.

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following it	tems 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								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in							
Printed Name:	Title:							
Signature: Todd Wells	Date:							
email:	Telephone:							
OCD Only								
Received by:	Date:							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by:	Date:							
Printed Name:								

# Appendix B

#### Water Well Data Average Depth to Groundwater (ft) EOG - SIBYL #1 FED Com #1 Eddy County, New Mexico

SITE

65

36

	17 S	outh		29	East	t			17 So	outh	30	East	
6	5	4	3		2	1		6	5	4	3	2	1
<sup>7</sup> Art	esia	9	10		11	12	1	7	8	9	10	11	12
18	17	16	15		14	13		18	17	16	15	14	13
19	20	21	22 <b>80</b>	76	23	24		19	20 <b>80</b>	21	22	23	24
30	29 <b>210</b> <b>208</b>	28	27		26	25		30	29	28	27	26	25
31	32	33	34		35 153	36		31	32	33	34	35	36
	18 S	outh		29	East	t	-		18 So	outh	30	East	
6	5	4	3		2	1	1	6	5	4	3	2	1 S
7	8	9	10	95	11	12		7	8	9	10	11	12
18	17	16	15		14	13		18	17	16	15	14	13
19	20	21	22		23	24 <b>158</b>		19	20	21 <b>266</b>	22 <b>202</b>	23	24
30	29	28	27		26	25		30	29	28	27	26 <b>184</b>	25
31	32	33	34		35	36		31	32 <b>161</b>	33	34	35	36
	19 S	outh		29	East	t I			19 So	outh	30	East	
6	5	4	3		2	1		6	5	4	3	2	1
7	8	9	10		11	12		7	8	9	10	11	12
18	17	16	15		14	13 123 101		18	17	16	15 <b>92</b>	14	13
19	20 62.9	21	22		23	24	1	19	20	21	22	23	24
30	29	28	27		26	25	1	30	29	28	27	26	25

	17 Sc	outh	th 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 <b>271</b>	35	36			

	18 \$	South	:	31 East	
6	5	4	3	2	1 454
7	8	9	10	11	12 <b>434</b> <b>400</b>
18	17	16	15	14 377 317	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 261 261	36

	19 S	outh	31		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19 <b>180</b>	20	21	22	23	24
30	29	28 <b>180</b>	27	26	25
31	32	33 101 140	34	35	36 <b>130</b>

88 New Mexico State Engineers Well Reports

34 62'

60

105 USGS Well Reports

33

31

32

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

<mark>90</mark> 31

115

32

33

34

35

- 34 NMOCD - Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level

35 121 36

115

110

143 NMOCD Groundwater map well location

USC Con Sea



**National Water Information System: Mapper** 





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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	been O=orp C=the	DD has replace bhaned, file is	(quai					IE 3=SW	,			(1 64)	
water right file.)	closed		(qua	ters a	are	smai	lest to	largest)	(NAD8	3 UTM in meters)		(In feet)	_
		POD		~ ~							<b>D</b>		
POD Number	Code	Sub- basin	County	Q 0 641	-	-	Tws	Rng	х	Y	-	Depth Water Co	
CP 00767 POD1		СР	ED				18S		599300	3619158* 🌍	500		
CP 00818 POD1		СР	LE	1	4	26	18S	30E	599289	3620364* 🌍	240		
CP 00819 POD1		СР	LE	2	4	32	18S	30E	594878	3618720* 🌍	150		
CP 00853 POD1	0	СР	ED	2	4	28	18S	30E	596472	3620340* 🌍	350		
										Average Depth to	o Water:		
										Minimum	n Depth:		
										Maximum	n Depth:		
Record Count: 4													

#### PLSS Search:

Township: 18S Range: 30E

\*UTM location was derived from PLSS - see Help

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



USGS Home Contact USGS Search USGS

### **National Water Information System: Web Interface**

USGS Water Resources	Data Category:	Geographic Area:	
	Groundwater	$\checkmark$ United States	✓ GO

### Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

## Search Results -- 1 sites found

site\_no list =

• 324502103495801

### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

## USGS 324502103495801 18S.31E.14.22133

Available data for this site Groundwater: Field measurements  $\checkmark$  GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°45'02", Longitude 103°49'58" NAD27

Land-surface elevation 3,736 feet above NAVD88

The depth of the well is 400 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

### **Output formats**

<u>Table of data</u>

Tab-separated data

Graph of data

Reselect period



USGS 324502103495801 185,31E,14,22133

Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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

AccessibilityPlug-InsFOIAPrivacyPolicies and NoticesU.S. Department of the InteriorU.S. Geological SurveyTitle:Groundwater for USA:Water LevelsURL:https://nwis.waterdata.usgs.gov/nwis/gwlevels?



Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-09-04 10:41:50 EDT 1.12 0.98 nadww01





•

# Appendix C

Released to Imaging: 8/18/2021 9:18:43 AM



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX Project Name: EOG Sibley 1 Fed Com 1



Date Received in Lab:Fri Jun-07-19 10:46 amReport Date:11-JUN-19Project Manager:Jessica Kramer

	Lab Id:	626930-0	001	626930-0	002	626930-0	03	626930-0	04	626930-0	05	626930-0	06
Analysis Requested	Field Id:	AH #1 (0	)-1')	AH #1 (1-1.5')		AH #1 (2-2	AH #1 (2-2.5')		AH #1 (3-3.5')		AH #1 (4-4.5')		5.5')
Analysis Kequesiea	Depth:												
	Matrix:	SOIL	SOIL		SOIL			SOIL		SOIL		SOIL	
	Sampled:	Jun-05-19 (	00:00	Jun-05-19	00:00	Jun-05-19 0	0:00	Jun-05-19 0	0:00	Jun-05-19 0	0:00	Jun-05-19 0	0:00
BTEX by EPA 8021B	Extracted:	Jun-07-19	Jun-07-19 16:00		16:00								
	Analyzed:	Jun-08-19	un-08-19 05:05 Ju		Jun-08-19 05:24								
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		< 0.00200	<0.00200 0.00200		0.00200								
Toluene		< 0.00200	0.00200	< 0.00200	0.00200								
Ethylbenzene		< 0.00200	0.00200	0.00228	0.00200								
m,p-Xylenes		< 0.00401	0.00401	< 0.00399	0.00399								
o-Xylene		< 0.00200	0.00200	0.00271	0.00200								
Total Xylenes		< 0.00200	0.00200	0.00271	0.00200								
Total BTEX		< 0.00200	0.00200	0.00499	0.00200								
Chloride by EPA 300	Extracted:	Jun-07-19	15:30	Jun-07-19 15:30		Jun-07-19 15:30 Jun-07-19 15:30		5:30	Jun-07-19 15:30		Jun-07-19 15:30		
	Analyzed:	Jun-07-19	18:18	Jun-07-19 18:44		Jun-07-19 18:49		Jun-07-19 19:05		Jun-07-19 19:10		Jun-07-19 19:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		50.8	4.96	< 5.02	5.02	< 5.00	5.00	<4.99	4.99	<4.96	4.96	<4.97	4.97
TPH By SW8015 Mod	Extracted:	Jun-07-19	11:00	Jun-07-19	11:00								
	Analyzed:	Jun-07-19	Jun-07-19 14:03		15:21								
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0								
Diesel Range Organics (DRO)		108	15.0	<15.0	15.0								
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0								
Total TPH		108	15.0	<15.0	15.0								

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

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

Version: 1.%

fession kenner

Jessica Kramer Project Assistant

Final 1.000



## Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX Project Name: EOG Sibley 1 Fed Com 1



Date Received in Lab:Fri Jun-07-19 10:46 amReport Date:11-JUN-19Project Manager:Jessica Kramer

I		626930-007		626930-008		626930-009		626930-010		626930-011		626930-012	
	Lab Id:								-		-		
Analysis Requested	Field Id:	AH #2 (0-1')		AH #2 (1-1.5')		AH #2 (2-2.5')		AH #2 (3-3	5.5')	AH #3 (0-1')		AH #3 (1-	-1.5')
	Depth:												
	Matrix:	SOIL	SOIL			SOIL		SOIL		SOIL	.	SOIL	
	Sampled:	Jun-05-19 (	Jun-05-19 00:00		00:00	Jun-05-19 0	0:00	Jun-05-19 0	0:00	Jun-05-19	00:00	Jun-05-19	00:00
BTEX by EPA 8021B	Extracted:	Jun-07-19	16:00	Jun-07-19 1	6:00					Jun-07-19	16:00	Jun-07-19 16:00	
	Analyzed:	Jun-08-19	05:43	Jun-08-19 0	6:02					Jun-08-19	06:21	Jun-08-19 06:40	
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Benzene		<0.00200 0.00200		< 0.00201	0.00201					< 0.00198	0.00198	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00198	0.00198	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00198	0.00198	< 0.00200	0.00200
m,p-Xylenes		< 0.00401	0.00401	< 0.00402	0.00402					< 0.00397	0.00397	< 0.00401	0.00401
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00198	0.00198	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00198	0.00198	< 0.00200	0.00200
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201					< 0.00198	0.00198	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Jun-07-19	15:30	Jun-07-19 15:30		Jun-07-19 15:30		Jun-08-19 1	5:00	Jun-08-19 15:00		Jun-08-19 15:00	
	Analyzed:	Jun-07-19	19:21	Jun-07-19 19:26		Jun-07-19 19:31		Jun-10-19 17:17		Jun-10-19 17:22		Jun-10-19 17:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		< 5.00	5.00	<4.97	4.97	<4.99	4.99	<4.96	4.96	47.6	4.99	143	4.97
TPH By SW8015 Mod	Extracted:	Jun-07-19	11:00	Jun-07-19 1	1:00					Jun-07-19	11:00	Jun-07-19	11:00
	Analyzed:	Jun-07-19	Jun-07-19 15:46		6:12					Jun-07-19	16:38	Jun-07-19	17:04
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0					<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0					<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0					<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0					<15.0	15.0	<15.0	15.0

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

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

Version: 1.%

fession beamer

Jessica Kramer Project Assistant

Page 2 of 84



## Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX Project Name: EOG Sibley 1 Fed Com 1



Date Received in Lab:Fri Jun-07-19 10:46 amReport Date:11-JUN-19Project Manager:Jessica Kramer

	Lab Id:	626930-0	13	626930-0	14	626930-015		626930-016		626930-017		626930-018	
An alugia Dogwood of	Field Id:	AH #3 (2-2	AH #3 (2-2.5')		3.5')	AH #3 (4-4.5')		AH #3 (5-5.5')		AH #4 (0-1')		AH #4 (1-1.5')	
Analysis Requested	Depth:												
	Matrix:	SOIL	SOIL			SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-05-19 (	00:00	Jun-05-19 0	0:00	Jun-05-19 0	0:00	Jun-05-19 (	00:00	Jun-05-19 00:00		Jun-05-19 00:00	
BTEX by EPA 8021B	Extracted:									Jun-07-19	16:00	Jun-07-19	16:00
	Analyzed:									Jun-08-19	06:59	Jun-08-19	07:18
	Units/RL:									mg/kg	RL	mg/kg	RL
Benzene	·									< 0.00200	0.00200	< 0.00200	0.00200
Toluene										< 0.00200	0.00200	< 0.00200	0.00200
Ethylbenzene										< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes										< 0.00399	0.00399	< 0.00400	0.00400
o-Xylene										< 0.00200	0.00200	< 0.00200	0.00200
Total Xylenes										< 0.00200	0.00200	< 0.00200	0.00200
Total BTEX										< 0.00200	0.00200	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Jun-08-19 1	5:00	Jun-08-19 15:00		Jun-08-19 15:00		Jun-08-19 15:00		Jun-08-19 15:00		Jun-08-19 15:00	
	Analyzed:	Jun-10-19 1	7:32	Jun-10-19 1	7:37	Jun-10-19 17:41		Jun-10-19 17:46		Jun-10-19 17:51		Jun-10-19 18:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.97	4.97	<5.03	5.03	<4.98	4.98	11.9	5.04	<4.98	4.98	<4.96	4.96
TPH By SW8015 Mod	Extracted:									Jun-07-19	11:00	Jun-07-19	11:00
	Analyzed:									Jun-07-19	17:29	Jun-07-19	17:55
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)										<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)										<15.0	15.0	<15.0	15.0
Total TPH										<15.0	15.0	<15.0	15.0

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

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

Version: 1.%

fession kenner

Jessica Kramer Project Assistant

Final 1.000



## Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX Project Name: EOG Sibley 1 Fed Com 1



Date Received in Lab:Fri Jun-07-19 10:46 amReport Date:11-JUN-19Project Manager:Jessica Kramer

	Lab Id:	626930-0	19	626930-0	20	626930-0	21	626930-022		626930-023		626930-024	
Analysis Requested	Field Id:	AH #4 (2-2	2.5')	AH #4 (3-3	3.5')	AH #4 (4-4.5')		AH #4 (5-5.5')		AH #5 (0-1')		AH #5 (1-1.5')	
Analysis Kequesiea	Depth:												
	Matrix:	SOIL	SOIL			SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-05-19 0	00:00	Jun-05-19 0	00:00	Jun-05-19 0	0:00	Jun-05-19 0	0:00	Jun-05-19 00:00		Jun-05-19 00:00	
BTEX by EPA 8021B	Extracted:									Jun-07-19	16:00	Jun-07-19	15:30
	Analyzed:									Jun-08-19	07:37	Jun-08-19	08:13
	Units/RL:									mg/kg	RL	mg/kg	RL
Benzene										< 0.00202	0.00202	< 0.00200	0.00200
Toluene										< 0.00202	0.00202	< 0.00200	0.00200
Ethylbenzene										0.00265	0.00202	0.00200	0.00200
m,p-Xylenes										0.00441	0.00403	< 0.00399	0.00399
o-Xylene										0.00302	0.00202	0.00210	0.00200
Total Xylenes										0.00743	0.00202	0.00210	0.00200
Total BTEX										0.0101	0.00202	0.00410	0.00200
Chloride by EPA 300	Extracted:	Jun-08-19 1	5:00	Jun-08-19 15:00		Jun-08-19 15:00		Jun-08-19 15:00		Jun-07-19 15:45		Jun-07-19 15:45	
	Analyzed:	Jun-10-19 1	8:20	Jun-10-19 18:25		Jun-10-19 18:39		Jun-10-19 18:44		Jun-10-19 10:38		Jun-10-19 10:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.96	4.96	< 5.02	5.02	<5.03	5.03	<4.96	4.96	9.09	4.95	5.10	4.96
TPH By SW8015 Mod	Extracted:									Jun-07-19	11:00	Jun-07-19	11:00
	Analyzed:									Jun-07-19	18:21	Jun-07-19	18:47
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)										135	14.9	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)										<14.9	14.9	<15.0	15.0
Total TPH										135	14.9	<15.0	15.0

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

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

Version: 1.%

fession kramer

Jessica Kramer Project Assistant

Final 1.000


### Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX Project Name: EOG Sibley 1 Fed Com 1



Date Received in Lab:Fri Jun-07-19 10:46 amReport Date:11-JUN-19Project Manager:Jessica Kramer

	Lab Id:	626930-0	25	626930-0	26	626930-0	)27	626930-0	28	626930-	029	626930-	030
Analysis Requested	Field Id:	AH #5 (2-2	2.5')	AH #5 (3-3	3.5')	AH #5 (4-:	5.5')	AH #5 (5-	5.5')	AH #6 (0	)-1')	AH #6 (1-	-1.5')
Analysis Kequeslea	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-05-19 0	00:00	Jun-05-19 (	00:00	Jun-05-19 (	00:00	Jun-05-19 (	00:00	Jun-05-19	00:00	Jun-05-19	00:00
BTEX by EPA 8021B	Extracted:									Jun-07-19	15:30	Jun-07-19	15:30
	Analyzed:									Jun-08-19	08:32	Jun-08-19	08:51
	Units/RL:									mg/kg	RL	mg/kg	RL
Benzene										< 0.00201	0.00201	< 0.00200	0.00200
Toluene										< 0.00201	0.00201	< 0.00200	0.00200
Ethylbenzene										< 0.00201	0.00201	< 0.00200	0.00200
m,p-Xylenes										< 0.00402	0.00402	< 0.00401	0.00401
o-Xylene										< 0.00201	0.00201	< 0.00200	0.00200
Total Xylenes										< 0.00201	0.00201	< 0.00200	0.00200
Total BTEX										< 0.00201	0.00201	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Jun-07-19 1	5:45	Jun-07-19 15:45		Jun-07-19 15:45		Jun-07-19 15:45		Jun-07-19 15:45		Jun-07-19 15:45	
	Analyzed:	Jun-10-19 1	0:53	Jun-10-19 1	1:14	Jun-10-19 1	1:36	Jun-10-19 11:43		Jun-10-19 11:51		Jun-10-19 11:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.99	4.99	21.5	5.01	15.9	4.97	52.6	5.00	15.1	5.00	< 5.00	5.00
TPH By SW8015 Mod	Extracted:									Jun-07-19	11:00	Jun-07-19	11:00
	Analyzed:									Jun-07-19	19:38	Jun-07-19	20:04
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)										114	15.0	24.3	15.0
Motor Oil Range Hydrocarbons (MRO)										<15.0	15.0	<15.0	15.0
Total TPH										114	15.0	24.3	15.0

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

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

Version: 1.%

fession kenner

Jessica Kramer Project Assistant

Final 1.000



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX Project Name: EOG Sibley 1 Fed Com 1



Date Received in Lab:Fri Jun-07-19 10:46 amReport Date:11-JUN-19Project Manager:Jessica Kramer

	Lab Id:	626930-0	31	626930-0	35	626930-0	)36	626930-0	)37	626930-0	38	626930-0	39
Analysis Paguastad	Field Id:	AH #6 (2-2	2.5')	AH #7 (0-0	0.1')	AH #7 (1-	1.5')	AH #7 (2-	2.5')	AH #7 (3-3	3.5')	AH #7 (4-4	4.5')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-05-19 (	00:00	Jun-05-19 (	00:00	Jun-05-19	00:00	Jun-05-19 (	00:00	Jun-05-19 0	00:00	Jun-05-19 (	00:00
BTEX by EPA 8021B	Extracted:		- 1	Jun-07-19 1	5:30	Jun-07-19	15:30						
	Analyzed:			Jun-08-19 0	9:10	Jun-08-19 (	09:29						
	Units/RL:			mg/kg	RL	mg/kg	RL						
Benzene				< 0.00198	0.00198	< 0.00201	0.00201						
Toluene				< 0.00198	0.00198	< 0.00201	0.00201						
Ethylbenzene				< 0.00198	0.00198	< 0.00201	0.00201						
m,p-Xylenes				< 0.00397	0.00397	< 0.00402	0.00402						
o-Xylene					0.00198	< 0.00201	0.00201						
Total Xylenes				< 0.00198	0.00198	< 0.00201	0.00201						
Total BTEX				< 0.00198	0.00198	< 0.00201	0.00201						
Chloride by EPA 300	Extracted:	Jun-07-19 1	5:45	Jun-07-19 1	5:30	Jun-07-19	15:30	Jun-07-19 1	5:30	Jun-07-19 1	5:30	Jun-07-19 1	5:30
	Analyzed:	Jun-10-19 1	2:05	Jun-07-19 1	9:52	Jun-07-192	20:08	Jun-07-19 2	20:13	Jun-07-19 2	0:18	Jun-07-19 2	20:24
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		53.6	5.05	29.5	4.96	95.7	5.03	33.9	5.05	162	5.05	125	5.00
TPH By SW8015 Mod	Extracted:			Jun-07-19 1	1:00	Jun-07-19	11:00						
	Analyzed:			Jun-07-19 2	20:29	Jun-07-19	20:55						
	Units/RL:			mg/kg	RL	mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)				<15.0	15.0	<15.0	15.0						
Diesel Range Organics (DRO)				1260	15.0	296	15.0						
Motor Oil Range Hydrocarbons (MRO)				107	15.0	43.8	15.0						
Total TPH				1370	15.0	340	15.0						

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

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

Version: 1.%

fession kramer

Jessica Kramer Project Assistant

Final 1.000



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX Project Name: EOG Sibley 1 Fed Com 1



Date Received in Lab:Fri Jun-07-19 10:46 amReport Date:11-JUN-19Project Manager:Jessica Kramer

	Lab Id:	626930-0	40	626930-0	41	626930-0	42	626930-0	43	626930-0	44	626930-0	45
A sector in D a second a l	Field Id:	AH #7 (5-5	5.5')	AH #8 (0-	-1')	AH #8 (1-1	1.5')	AH #8 (2-2	2.5')	AH #8 (3-3	3.5')	AH #8 (4-4	4.5')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-05-19 0	00:00	Jun-05-19 0	00:00	Jun-05-19 0	00:00	Jun-05-19 0	0:00	Jun-05-19 (	00:00	Jun-05-19 0	00:00
BTEX by EPA 8021B	Extracted:			Jun-07-19 1	5:30	Jun-07-19 1	5:30						
	Analyzed:			Jun-08-19 1	0:07	Jun-08-19 0	9:48						
	Units/RL:			mg/kg	RL	mg/kg	RL						
Benzene				< 0.00199	0.00199	< 0.00202	0.00202						
Toluene				< 0.00199	0.00199	< 0.00202	0.00202						
Ethylbenzene				< 0.00199	0.00199	< 0.00202	0.00202						
m,p-Xylenes				< 0.00398	0.00398	< 0.00403	0.00403						
o-Xylene				< 0.00199	0.00199	< 0.00202	0.00202						
Total Xylenes				< 0.00199	0.00199	< 0.00202	0.00202						
Total BTEX				< 0.00199	0.00199	< 0.00202	0.00202						
Chloride by EPA 300	Extracted:	Jun-07-19 1	5:30	Jun-07-19 1	5:30	Jun-07-19 1	5:30	Jun-07-19 1	5:30	Jun-07-19 1	5:45	Jun-07-19 1	5:45
	Analyzed:	Jun-07-19 2	20:29	Jun-07-19 2	0:34	Jun-07-19 1	9:47	Jun-07-19 2	0:39	Jun-10-19 09:33		Jun-10-19 09:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		120	4.99	16.7	4.95	35.1	5.00	224	5.04	175	4.96	52.6	4.95
TPH By SW8015 Mod	Extracted:		Î	Jun-07-19 1	1:00	Jun-07-19 1	1:00						
	Analyzed:			Jun-07-19 2	21:20	Jun-07-19 2	21:45						
	Units/RL:			mg/kg	RL	mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)				<15.0	15.0	<15.0	15.0						
Diesel Range Organics (DRO)				1650	15.0	61.6	15.0						
Motor Oil Range Hydrocarbons (MRO)				115	15.0	<15.0	15.0						
Total TPH				1770	15.0	61.6	15.0						

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

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

Version: 1.%

fession kenner

Jessica Kramer Project Assistant

Final 1.000



### Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX Project Name: EOG Sibley 1 Fed Com 1



Date Received in Lab:Fri Jun-07-19 10:46 amReport Date:11-JUN-19Project Manager:Jessica Kramer

	Lab Id:	626930-046			
Analysis Requested	Field Id:	AH #8 (5-5.5')			
Analysis Kequesiea	Depth:				
	Matrix:	SOIL			
	Sampled:	Jun-05-19 00:00			
Chloride by EPA 300	Extracted:	Jun-10-19 16:45	Î		
	Analyzed:	Jun-11-19 00:46			
	Units/RL:	mg/kg RL			
Chloride		12.0 5.02			

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

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

Version: 1.%

fession kenner

Jessica Kramer Project Assistant

# Analytical Report 626930

for Tetra Tech- Midland

**Project Manager: Mike Carmona** 

EOG Sibley 1 Fed Com 1

212C-MD-01787

11-JUN-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

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

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

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





11-JUN-19

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

Reference: XENCO Report No(s): 626930 EOG Sibley 1 Fed Com 1 Project Address: Eddy County, NM

#### Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 626930. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 626930 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jession Vermer

Jessica Kramer Project Assistant

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

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



#### Sample Id

$\Delta H \pm (()_{-}   ')$
AH #1 (0-1') AH #1 (1-1.5')
AH #1 (2-2.5')
AH #1 (2-2.5) AH #1 (3-3.5')
AH #1 (4-4.5')
AH #1 (5-5.5')
AH #2 (0-1')
AH #2 (0-1) AH #2 (1-1.5')
AH #2 (1-1.5) AH #2 (2-2.5')
AH #2 (2-2.5) AH #2 (3-3.5')
AH #3 (0-1')
AH #3 (0-1) AH #3 (1-1.5')
AH #3 (2-2.5')
AH #3 (2-2.5) AH #3 (3-3.5')
AH #3 (4-4.5')
AH #3 (4-4.3) AH #3 (5-5.5')
AH #4 (0-1')
AH #4 (1-1.5') AH #4 (2-2.5')
AH #4 (3-3.5') AH #4 (4-4.5')
AH #4 (5-5.5')
AII #5 (0 1')
AH #5 (0-1')
AH #5 (1-1.5')
AH #5 (1-1.5') AH #5 (2-2.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (1-1.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (1-1.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (1-1.5') AH #7 (2-2.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (0-1') AH #6 (2-2.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (2-2.5') AH #7 (3-3.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (1-1.5') AH #7 (2-2.5') AH #7 (3-3.5') AH #7 (4-4.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (1-1.5') AH #7 (2-2.5') AH #7 (3-3.5') AH #7 (5-5.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (1-1.5') AH #7 (2-2.5') AH #7 (3-3.5') AH #7 (4-4.5') AH #7 (5-5.5') AH #8 (0-1')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (0-0.1') AH #7 (2-2.5') AH #7 (2-2.5') AH #7 (3-3.5') AH #7 (4-4.5') AH #7 (5-5.5') AH #8 (0-1') AH #8 (1-1.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (0-0.1') AH #7 (2-2.5') AH #7 (2-2.5') AH #7 (3-3.5') AH #7 (5-5.5') AH #8 (0-1') AH #8 (1-1.5') AH #8 (2-2.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (0-0.1') AH #7 (0-0.1') AH #7 (2-2.5') AH #7 (2-2.5') AH #7 (3-3.5') AH #7 (5-5.5') AH #8 (0-1') AH #8 (1-1.5') AH #8 (2-2.5') AH #8 (3-3.5')
AH #5 (1-1.5') AH #5 (2-2.5') AH #5 (3-3.5') AH #5 (4-5.5') AH #5 (5-5.5') AH #6 (0-1') AH #6 (1-1.5') AH #6 (2-2.5') AH #7 (0-0.1') AH #7 (0-0.1') AH #7 (2-2.5') AH #7 (2-2.5') AH #7 (3-3.5') AH #7 (5-5.5') AH #8 (0-1') AH #8 (1-1.5') AH #8 (2-2.5')

## Sample Cross Reference 626930



EOG Sibley 1 Fed Com 1

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	06-05-19 00:00		626930-001
S	06-05-19 00:00		626930-002
S	06-05-19 00:00		626930-003
S	06-05-19 00:00		626930-004
S	06-05-19 00:00		626930-005
S	06-05-19 00:00		626930-006
S	06-05-19 00:00		626930-007
S	06-05-19 00:00		626930-008
S	06-05-19 00:00		626930-009
S	06-05-19 00:00		626930-010
S	06-05-19 00:00		626930-011
S	06-05-19 00:00		626930-012
S	06-05-19 00:00		626930-013
S	06-05-19 00:00		626930-014
S	06-05-19 00:00		626930-015
S	06-05-19 00:00		626930-016
S	06-05-19 00:00		626930-017
S	06-05-19 00:00		626930-018
S	06-05-19 00:00		626930-019
S	06-05-19 00:00		626930-020
S	06-05-19 00:00		626930-021
S	06-05-19 00:00		626930-022
S	06-05-19 00:00		626930-023
S	06-05-19 00:00		626930-024
S	06-05-19 00:00		626930-025
S	06-05-19 00:00		626930-026
S	06-05-19 00:00		626930-027
S	06-05-19 00:00		626930-028
S	06-05-19 00:00		626930-029
S	06-05-19 00:00		626930-030
S	06-05-19 00:00		626930-031
S	06-05-19 00:00		626930-035
S	06-05-19 00:00		626930-036
S	06-05-19 00:00		626930-037
S	06-05-19 00:00		626930-038
S	06-05-19 00:00		626930-039
S	06-05-19 00:00		626930-040
S	06-05-19 00:00		626930-041
S	06-05-19 00:00		626930-042
S	06-05-19 00:00		626930-043
S	06-05-19 00:00		626930-044
S	06-05-19 00:00		626930-045
S	06-05-19 00:00		626930-046

Version: 1.%

.





AH #6 (3-3.5') AH #6 (4-4.5') AH #6 (5-5.5')

## Sample Cross Reference 626930



#### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

S	06-05-19 00:00	Not Analyzed
S	06-05-19 00:00	Not Analyzed
S	06-05-19 00:00	Not Analyzed

Version: 1.%



### CASE NARRATIVE

Page 45 of 159

Client Name: Tetra Tech- Midland Project Name: EOG Sibley 1 Fed Com 1

Project ID: 212C-MD-01787 Work Order Number(s): 626930 Report Date: 11-JUN-19 Date Received: 06/07/2019

#### Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3091703 TPH By SW8015 Mod Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected. Samples affected are: 626930-002.

Batch: LBA-3091755 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 626930-036.

Batch: LBA-3091760 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





#### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #1 (0-1')   Lab Sample Id: 626930-001		Matrix: Date Collec	Soil cted: 06.05.19 00.00	Date Received:06.07.19 10.46					
Analytical Method: Chloride by EP Tech: CHE	PA 300				Prep Method: E3 6 Moisture:	00P			
Analyst: CHE Seq Number: 3091686		Date Prep:	06.07.19 15.30	E	Basis: We	et Weight			
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	50.8	4.96	mg/kg	06.07.19 18.18		1		
Analytical Method: TPH By SW80 Tech: ARM Analyst: ARM Seq Number: 3091703	15 Mod	Date Prep:	06.07.19 11.00	9	Prep Method: TX 6 Moisture: Basis: We	11005P et Weight			
Tech: ARM Analyst: ARM	15 Mod Cas Number	Date Prep: Result	06.07.19 11.00 <b>RL</b>	9	6 Moisture:		Dil		
Tech:ARMAnalyst:ARMSeq Number:3091703		-		9 E	6 Moisture: Basis: We	et Weight	<b>Dil</b>		
Tech: ARM Analyst: ARM Seq Number: 3091703 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number	Result	RL	9 E Units	6 Moisture: Basis: We Analysis Date	et Weight Flag			
Tech: ARM Analyst: ARM Seq Number: 3091703 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610	<b>Result</b> <15.0	<b>RL</b> 15.0	9 E Units mg/kg	6 Moisture: Basis: We Analysis Date 06.07.19 14.03	et Weight Flag	1		
Tech: ARM Analyst: ARM Seq Number: 3091703 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <15.0 108	<b>RL</b> 15.0 15.0	9 E Units mg/kg mg/kg	6 Moisture: Basis: We Analysis Date 06.07.19 14.03 06.07.19 14.03	et Weight Flag U	1		
Tech: ARM Analyst: ARM Seq Number: 3091703 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <15.0 108 <15.0 108	<b>RL</b> 15.0 15.0 15.0	9 E Units mg/kg mg/kg mg/kg	6 Moisture: Basis: We Analysis Date 06.07.19 14.03 06.07.19 14.03 06.07.19 14.03	et Weight Flag U	1 1 1		

96

%

70-135

06.07.19 14.03

84-15-1

o-Terphenyl





#### Tetra Tech- Midland, Midland, TX

Sample Id: AH #1 (0-1')	Matrix: Soil	Date Received:06.07.19 10.46
Lab Sample Id: 626930-001	Date Collected: 06.05.19 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Number:	3091760				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.08.19 05.05	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.08.19 05.05	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.08.19 05.05	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.08.19 05.05	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.08.19 05.05	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.08.19 05.05	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.08.19 05.05	U	1
_			% Recovery					
Surrogate		Cas Number		Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	70-130	06.08.19 05.05		
4-Bromofluorobenzene		460-00-4	102	%	70-130	06.08.19 05.05		





#### Tetra Tech- Midland, Midland, TX

Sample Id: AH #1 (1-1.5')   Lab Sample Id: 626930-002	Matrix: Date Collec	Soil cted: 06.05.19 00.00	Date Received:06.07.19 10.46				
Analytical Method: Chloride by EPA	300				Prep Method: E30	00P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.30		Basis: We	t Weight	
Seq Number: 3091686							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	06.07.19 18.44	U	1

Analytical Method: TPH By SW80 Tech: ARM Analyst: ARM	Dete Deere	06.07	19 11.00	9	Prep Method: TX 6 Moisture: 3asis: Wet	1005P Weight		
Seq Number: 3091703		Date Prep:	06.07.	19 11.00	Г	Dasis: wei	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 15.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 15.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 15.21	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 15.21	U	1
Surrogate		% Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	1-85-3	102	%	70-135	06.07.19 15.21		
o-Terphenyl	84	-15-1	67	%	70-135	06.07.19 15.21	**	





Wet Weight

### Tetra Tech- Midland, Midland, TX

Sample Id: AH #1 (1-1.5')   Lab Sample Id: 626930-002	Matrix: Soil Date Collected: 06.05.19 00.00	Date Received:06.07.19 10.46
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: SCM		% Moisture:

-	-			-
Tech:	SCM			% Moisture
Analyst:	SCM	Date Prep:	06.07.19 16.00	Basis:
Seq Number:	3091760			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.08.19 05.24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.08.19 05.24	U	1
Ethylbenzene	100-41-4	0.00228	0.00200		mg/kg	06.08.19 05.24		1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.08.19 05.24	U	1
o-Xylene	95-47-6	0.00271	0.00200		mg/kg	06.08.19 05.24		1
Total Xylenes	1330-20-7	0.00271	0.00200		mg/kg	06.08.19 05.24		1
Total BTEX		0.00499	0.00200		mg/kg	06.08.19 05.24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	06.08.19 05.24		
4-Bromofluorobenzene		460-00-4	72	%	70-130	06.08.19 05.24		





### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #1 (2-2.5')   Lab Sample Id: 626930-003		Matrix: Date Collect	Soil ed: 06.05.19 00.00		Date Received:	06.07.19 10.4	6
Analytical Method: Chloride by EPA 30	00				Prep Method:	E300P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.30		Basis:	Wet Weight	
Seq Number: 3091686							
Parameter	Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Chloride	6887-00-6	< 5.00	5.00	mg/kg	06.07.19 18.4	19 U	1

Released to Imaging: 8/18/2021 9:18:43 AM



## **Certificate of Analytical Results 626930**



### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #1 (3-3.5') Lab Sample Id: 626930-004		Matrix: Date Collec	Soil cted: 06.05.19 00.00	]	Date Received:06.0	07.19 10.4	6
Analytical Method: Chloride by EP	A 300			]	Prep Method: E30	0P	
Tech: CHE				Q	% Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.30	]	Basis: Wet	t Weight	
Seq Number: 3091686							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	06.07.19 19.05	U	1



## **Certificate of Analytical Results 626930**



### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: Lab Sample I	<b>AH #1 (4-4.5')</b> d: 626930-005		Matrix: Date Colle	Soil cted: 06.05.19 00.00	]	Date Received:06.	07.19 10.4	6
Analytical M	ethod: Chloride by EPA	300			]	Prep Method: E30	)0P	
Tech:	CHE				(	% Moisture:		
Analyst:	CHE		Date Prep:	06.07.19 15.30	]	Basis: We	t Weight	
Seq Number:	3091686							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.96	4.96	mg/kg	06.07.19 19.10	U	1

Released to Imaging: 8/18/2021 9:18:43 AM





#### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #1 (5-5.5')   Lab Sample Id: 626930-006		Matrix: Date Collecte	Soil ed: 06.05.19 00.00	D	ate Received:06.0	7.19 10.46	
Analytical Method: Chloride b	y EPA 300			Pı	rep Method: E30	0P	
Tech: CHE				%	Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.30	B	asis: Wet	Weight	
Seq Number: 3091686							
Parameter	Cas Number	Result ]	RL	Units	Analysis Date	Flag	Dil

<4.97

16887-00-6

4.97

mg/kg

06.07.19 19.15

U

1





#### Tetra Tech- Midland, Midland, TX

Sample Id: Lab Sample Id	<b>AH #2 (0-1')</b> : 626930-007		Matrix: Date Collec	Soil ted: 06.05.19 00.00		Date Received:06.0	07.19 10.40	5
Analytical Me Tech: Analyst: Seq Number:	thod: Chloride by EPA CHE CHE 3091686	300	Date Prep:	06.07.19 15.30		Prep Method: E30 % Moisture: Basis: Wet	0P Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<5.00	5.00	mg/kg	06.07.19 19.21	U	1

Analytical Method: TPH By SW801	5 Mod				Prep Method: TX1005P				
Tech: ARM					%	6 Moisture:			
Analyst: ARM		Date Prep:	06.07.1	9 11.00	В	asis: We	t Weight		
Seq Number: 3091703									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 15.46	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 15.46	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 15.46	U	1	
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 15.46	U	1	
Surrogate		% Cas Number	Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	11	1-85-3	99	%	70-135	06.07.19 15.46			
o-Terphenyl	84	-15-1	70	%	70-135	06.07.19 15.46			





### Tetra Tech- Midland, Midland, TX

Sample Id: AH #2 (0-1')	Matrix: Soil	Date Received:06.07.19 10.46
Lab Sample Id: 626930-007	Date Collected: 06.05.19 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Number:	3091760				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.08.19 05.43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.08.19 05.43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.08.19 05.43	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.08.19 05.43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.08.19 05.43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.08.19 05.43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.08.19 05.43	U	1
S		Cas Number	% Recovery	Units	T ::4	A	The s	
Surrogate		Cas Number		Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	06.08.19 05.43		
4-Bromofluorobenzene		460-00-4	98	%	70-130	06.08.19 05.43		





#### Tetra Tech- Midland, Midland, TX

Sample Id: AH #2 (1-1.5')   Lab Sample Id: 626930-008	Matrix: Date Collec	Soil ted: 06.05.19 00.00	Date Received:06.07.19 10.46				
Analytical Method: Chloride by EPA	300				Prep Method: E3	00P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.30		Basis: We	et Weight	
Seq Number: 3091686							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	06.07.19 19.26	U	1

Analytical Method: TPH By SW801	Prep Method: TX1005P							
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep:	06.07.	19 11.00	E	Basis: Wet	Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 16.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 16.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 16.12	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 16.12	U	1
Surrogate	(	% Cas Number	6 Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	1-85-3	105	%	70-135	06.07.19 16.12		
o-Terphenyl	84	-15-1	82	%	70-135	06.07.19 16.12		





#### Tetra Tech- Midland, Midland, TX

Sample Id: AH #2 (1-1.5')	Matrix: Soil	Date Received:06.07.19 10.46
Lab Sample Id: 626930-008	Date Collected: 06.05.19 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Number:	3091760				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.08.19 06.02	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.08.19 06.02	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.08.19 06.02	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.08.19 06.02	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.08.19 06.02	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.08.19 06.02	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.08.19 06.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
5						<sup>2</sup>	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	06.08.19 06.02		
4-Bromofluorobenzene		460-00-4	98	%	70-130	06.08.19 06.02		



## **Certificate of Analytical Results 626930**



### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #2 (2-2.5')   Lab Sample Id: 626930-009		Matrix: Date Collec	Soil cted: 06.05.19 00.00	Date Received:06.07.19 10.4			6
Analytical Method: Chloride by	EPA 300				Prep Method: E30	OP	
Tech: CHE				0	% Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.30	]	Basis: Wet	Weight	
Seq Number: 3091686							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	06.07.19 19.31	U	1





#### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: Lab Sample Id	<b>AH #2 (3-3.5')</b> d: 626930-010		Matrix: Date Collec	Soil cted: 06.05.19 00.00	D	ate Received:06.	07.19 10.46	5
Analytical Me Tech:	ethod: Chloride by EPA 3 SPC	00				rep Method: E30 Moisture:	00P	
Analyst: Seq Number:	SPC 3091807		Date Prep:	06.08.19 15.00	В	asis: We	t Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil

16887-00-6

<4.96

4.96

mg/kg

06.10.19 17.17

U

1

Released to Imaging: 8/18/2021 9:18:43 AM





#### Tetra Tech- Midland, Midland, TX

		Matrix:	Soil		Date Received:0	6.07.19 10.46	)
ab Sample Id: 626930-011			cted: 06.05.19 00.00				
od: Chloride by EPA	300				Prep Method: E	E300P	
SPC					% Moisture:		
SPC		Date Prep:	06.08.19 15.00		Basis: V	Vet Weight	
8091807							
	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
	16887-00-6	47.6	4.99	mg/kg	06.10.19 17.22	2	1
5	od: Chloride by EPA 3 PC PC	od: Chloride by EPA 300 PC PC 091807 <b>Cas Number</b>	od: Chloride by EPA 300 PC PC Date Prep: 091807 <b>Cas Number Result</b>	od: Chloride by EPA 300 PC PC Date Prep: 06.08.19 15.00 091807 Cas Number Result RL	od: Chloride by EPA 300 PC PC Date Prep: 06.08.19 15.00 091807 Cas Number Result RL Units	od: Chloride by EPA 300 Prep Method: E PC Date Prep: 06.08.19 15.00 Basis: V 091807 Cas Number Result RL Units Analysis Dat	od: Chloride by EPA 300 Prep Method: E300P PC % Moisture: PC Date Prep: 06.08.19 15.00 Basis: Wet Weight 091807 Cas Number Result RL Units Analysis Date Flag

Analytical Method:TPH By SW8015 ModPrep Method:TX1005P								
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep:	06.07.	9 11.00	В	asis: Wet	Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 16.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 16.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 16.38	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 16.38	U	1
Surrogate		Cas Number %	6 Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	11-85-3	106	%	70-135	06.07.19 16.38		
o-Terphenyl	84	4-15-1	92	%	70-135	06.07.19 16.38		





### Tetra Tech- Midland, Midland, TX

Sample Id: AH #3 (0-1')	Matrix: Soil	Date Received:06.07.19 10.46
Lab Sample Id: 626930-011	Date Collected: 06.05.19 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Number:	3091760				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	06.08.19 06.21	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	06.08.19 06.21	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	06.08.19 06.21	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	06.08.19 06.21	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	06.08.19 06.21	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	06.08.19 06.21	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	06.08.19 06.21	U	1
			% Recovery					
Surrogate		Cas Number		Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	:	540-36-3	100	%	70-130	06.08.19 06.21		
4-Bromofluorobenzene		460-00-4	103	%	70-130	06.08.19 06.21		





### Tetra Tech- Midland, Midland, TX

Sample Id:	AH #3 (1-1.5')		Matrix:	Soil		Date Received:06.	07.19 10.4	б
Lab Sample I	ample Id: 626930-012 Date Collected: 06.05.19 00.00							
Analytical M	ethod: Chloride by EPA	. 300				Prep Method: E30	)0P	
Tech:	SPC					% Moisture:		
Analyst:	SPC		Date Prep:	06.08.19 15.00		Basis: We	t Weight	
Seq Number:	3091807							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	143	4.97	mg/kg	06.10.19 17.27		1

Analytical Method: TPH By SW801	5 Mod	Prep Method				Prep Method: TX1	TX1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep:	06.07.	19 11.00	E	Basis: Wet	Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 17.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 17.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 17.04	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 17.04	U	1
Surrogate	(	% Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	1-85-3	103	%	70-135	06.07.19 17.04		
o-Terphenyl	84	-15-1	99	%	70-135	06.07.19 17.04		





#### Tetra Tech- Midland, Midland, TX

Sample Id: AH #3 (1-1.5') Lab Sample Id: 626930-012	Matrix: Soil Date Collected: 06.05.19 00.00	Date Received:06.07.19 10.46
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	SCM			% Moisture	2:
Analyst	SCM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Nur	nber: 3091760				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.08.19 06.40	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.08.19 06.40	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.08.19 06.40	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.08.19 06.40	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.08.19 06.40	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.08.19 06.40	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.08.19 06.40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	06.08.19 06.40		
1,4-Difluorobenzene		540-36-3	102	%	70-130	06.08.19 06.40		





### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: Lab Sample Id	<b>AH #3 (2-2.5')</b> l: 626930-013		Matrix: Date Collec	Soil cted: 06.05.19 00.00	Ι	Date Received:	06.07.19 10.46	j
Analytical Me	thod: Chloride by EPA 3	00			F	Prep Method: 1	E300P	
Tech:	SPC				9	% Moisture:		
Analyst:	SPC		Date Prep:	06.08.19 15.00	E	Basis:	Wet Weight	
Seq Number:	3091807							
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil

<4.97

16887-00-6

4.97

mg/kg 06.10.19 17.32

U

1



## **Certificate of Analytical Results 626930**



### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: Lab Sample Id	<b>AH #3 (3-3.5')</b> d: 626930-014		Matrix: Date Collec	Soil cted: 06.05.19 00.00	]	6		
Analytical Me	ethod: Chloride by EPA	300			]	Prep Method: E30	00P	
Tech:	SPC				0	% Moisture:		
Analyst:	SPC		Date Prep:	06.08.19 15.00	]	Basis: We	t Weight	
Seq Number:	3091807							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<5.03	5.03	mg/kg	06.10.19 17.37	U	1



## **Certificate of Analytical Results 626930**



### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #3 (4-4.5') Lab Sample Id: 626930-015		Matrix: Date Collec	Soil cted: 06.05.19 00.00	]	6		
Analytical Method: Chloride by EP	PA 300			]	Prep Method: E30	00P	
Tech: SPC					% Moisture:		
Analyst: SPC		Date Prep:	06.08.19 15.00	]	Basis: We	t Weight	
Seq Number: 3091807							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	06.10.19 17.41	U	1





### Tetra Tech- Midland, Midland, TX

Sample Id: AH #3 (5-5.5')   Lab Sample Id: 626930-016	Matrix: Date Collec	Soil ted: 06.05.19 00.00	Date Received:06.07.19 10.46				
Analytical Method: Chloride by EPA 300 Tech: SPC				Prep Method: E30 % Moisture:	00P		
Analyst: SPC Seq Number: 3091807	Date Prep:	06.08.19 15.00		Basis: We	t Weight		
Parameter Cas Nu	mber Result	RL	Units	Analysis Date	Flag	Dil	
Chloride 16887-00-	-6 <b>11.9</b>	5.04	mg/kg	06.10.19 17.46		1	





### Tetra Tech- Midland, Midland, TX

Sample Id: Lab Sample I	<b>AH #4 (0-1')</b> d: 626930-017	Matrix: Date Colle	Soil cted: 06.05.19 00.00	Date Received:06.07.19 10.46				
Analytical M Tech: Analyst: Seq Number:	ethod: Chloride by EPA SPC SPC 3091807	A 300	Date Prep:	06.08.19 15.00		Prep Method: E3 % Moisture: Basis: We	00P et Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.98	4.98	mg/kg	06.10.19 17.51	U	1

Analytical Method: TPH By SW801	5 Mod				Р	rep Method: TX1	005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep:	06.07.	19 11.00	В	Basis: Wet	Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 17.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 17.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 17.29	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 17.29	U	1
Surrogate		% Cas Number	6 Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	1-85-3	98	%	70-135	06.07.19 17.29		
o-Terphenyl	84	-15-1	91	%	70-135	06.07.19 17.29		





#### Tetra Tech- Midland, Midland, TX

Sample Id: AH #4 (0-1')	Matrix: Soil	Date Received:06.07.19 10.46
Lab Sample Id: 626930-017	Date Collected: 06.05.19 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Number:	3091760				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.08.19 06.59	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.08.19 06.59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.08.19 06.59	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.08.19 06.59	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.08.19 06.59	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.08.19 06.59	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.08.19 06.59	U	1
5			% Recovery	<b>T</b> T	<b>T</b> • • • •		171	
Surrogate		Cas Number		Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	06.08.19 06.59		
1,4-Difluorobenzene		540-36-3	102	%	70-130	06.08.19 06.59		





### Tetra Tech- Midland, Midland, TX

Sample Id: AH #4 (1-1.5') Lab Sample Id: 626930-018			Matrix: Date Collec	Soil cted: 06.05.19 00.00	Date Received:06.07.19 10.46				
Analytical M Tech: Analyst:	ethod: Chloride by EP SPC SPC	A 300	Date Prep:	06.08.19 15.00		Prep Method: E30 % Moisture: Basis: Wet	00P t Weight		
Seq Number: Parameter	3091807	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	<4.96	4.96	mg/kg	06.10.19 18.15	U	1	

Analytical Method: TPH By SW801	5 Mod				Р	rep Method: TX1	005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep:	06.07.1	9 11.00	В	asis: Wet	Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 17.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 17.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 17.55	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 17.55	U	1
Surrogate		% Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	1-85-3	118	%	70-135	06.07.19 17.55		
o-Terphenyl	84	-15-1	102	%	70-135	06.07.19 17.55		





Wet Weight

### Tetra Tech- Midland, Midland, TX

Sample Id: AH #4 (1-1.5')	Matrix: Soil	Date Received:06.07.19 10.46
Lab Sample Id: 626930-018	Date Collected: 06.05.19 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: SCM		% Moisture:

2		2			1
Tech:	SCM				% Moisture:
Analyst:	SCM		Date Prep:	06.07.19 16.00	Basis:
Seq Number:	3091760				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.08.19 07.18	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.08.19 07.18	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.08.19 07.18	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	06.08.19 07.18	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.08.19 07.18	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.08.19 07.18	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.08.19 07.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	06.08.19 07.18		
1,4-Difluorobenzene		540-36-3	100	%	70-130	06.08.19 07.18		





### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #4 (2-2.5') Lab Sample Id: 626930-019		Matrix: Date Colle	Soil cted: 06.05.19 00.00	Date Received:06.07.19 10.46					
Analytical Method: Chloride by EP	A 300				Prep Method: E30	00P			
Tech: SPC					% Moisture:				
Analyst: SPC		Date Prep:	06.08.19 15.00		Basis: We	t Weight			
Seq Number: 3091807									
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	<4.96	4.96	mg/kg	06.10.19 18.20	U	1		

Released to Imaging: 8/18/2021 9:18:43 AM


## **Certificate of Analytical Results 626930**



#### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: Lab Sample Id	<b>AH #4 (3-3.5')</b> d: 626930-020	Matrix: Date Colle	Soil cted: 06.05.19 00.00	Date Received:06.07.19 10.4				
Analytical Me	ethod: Chloride by EPA	A 300			I	Prep Method: E30	00P	
Tech:	SPC				Ģ	% Moisture:		
Analyst:	SPC		Date Prep:	06.08.19 15.00	1	Basis: Wet	t Weight	
Seq Number:	3091807							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<5.02	5.02	mg/kg	06.10.19 18.25	U	1



## **Certificate of Analytical Results 626930**



### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: Lab Sample Id	<b>AH #4 (4-4.5')</b> d: 626930-021	Matrix: Date Colle	Soil cted: 06.05.19 00.00	Date Received:06.07.19 10.40				
Analytical Me	ethod: Chloride by EPA	A 300			1	Prep Method: E30	)0P	
Tech:	SPC				(	% Moisture:		
Analyst:	SPC		Date Prep:	06.08.19 15.00	]	Basis: We	t Weight	
Seq Number:	3091807							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<5.03	5.03	mg/kg	06.10.19 18.39	U	1





### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id:         AH #4 (5-5.5           Lab Sample Id:         626930-022	')	Matrix: Date Collec	Soil cted: 06.05.19 00.00		6		
Analytical Method: Chloride	by EPA 300				Prep Method: E30	)0P	
Tech: SPC					% Moisture:		
Analyst: SPC		Date Prep:	06.08.19 15.00		Basis: We	t Weight	
Seq Number: 3091807							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	06.10.19 18.44	U	1

Released to Imaging: 8/18/2021 9:18:43 AM





#### Tetra Tech- Midland, Midland, TX

Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.07.19 18.21	U	1
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number: 3091703							
Analyst: ARM		Date Prep:	06.07.19 11.00		Basis: We	t Weight	
Tech: ARM					% Moisture:		
Analytical Method: TPH By SW80	15 Mod				Prep Method: TX	1005P	
~nioride	16887-00-6	9.09	4.95	mg/kg	06.10.19 10.38		1
Chloride	16887-00-6	9.09	4.95		06.10.19 10.38	Flag	1
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number: 3091714						U	
Analyst: CHE		Date Prep:	06.07.19 15.45		Basis: We	t Weight	
Tech: CHE					% Moisture:		
Analytical Method: Chloride by EP	PA 300				Prep Method: E30	00P	
Lab Sample Id: 626930-023		Date Collec	cted: 06.05.19 00.00				
Sample Id: AH #5 (0-1')		Matrix:	Soil		Date Received:06.		

Diesel Range Organics (DRO)	C10C28DRO	135	14.9		mg/kg	06.07.19 18.21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	06.07.19 18.21	U	1
Total TPH	PHC635	135	14.9		mg/kg	06.07.19 18.21		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	121	%	70-135	06.07.19 18.21		
o-Terphenyl		84-15-1	109	%	70-135	06.07.19 18.21		





#### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #5 (0-1')	Matrix: Soil	Date Received:06.07.19 10.46			
Lab Sample Id: 626930-023	Date Collected: 06.05.19 00.00				
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B			

Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Number:	3091760				

Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
71-43-2	< 0.00202	0.00202		mg/kg	06.08.19 07.37	U	1
108-88-3	< 0.00202	0.00202		mg/kg	06.08.19 07.37	U	1
100-41-4	0.00265	0.00202		mg/kg	06.08.19 07.37		1
179601-23-1	0.00441	0.00403		mg/kg	06.08.19 07.37		1
95-47-6	0.00302	0.00202		mg/kg	06.08.19 07.37		1
1330-20-7	0.00743	0.00202		mg/kg	06.08.19 07.37		1
	0.0101	0.00202		mg/kg	06.08.19 07.37		1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
:	540-36-3	100	%	70-130	06.08.19 07.37		
	460-00-4	111	%	70-130	06.08.19 07.37		
	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	71-43-2       <0.00202	71-43-2     <0.00202	71-43-2     <0.00202	71-43-2     <0.00202	71-43-2         <0.00202         0.00202         mg/kg         06.08.19         07.37           108-88-3         <0.00202	71-43-2       <0.00202       0.00202       mg/kg       06.08.19 07.37       U         108-88-3       <0.00202





### Tetra Tech- Midland, Midland, TX

Sample Id:	AH #5 (1-1.5')		Matrix:	Soil	]	Date Received:06.	07.19 10.4	6
Lab Sample	Id: 626930-024		Date Collec	cted: 06.05.19 00.00				
Analytical M	lethod: Chloride by El	PA 300			]	Prep Method: E30	)0P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep:	06.07.19 15.45	]	Basis: We	t Weight	
Seq Number:	: 3091714							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	5.10	4.96	mg/kg	06.10.19 10.45		1

Analytical Method: TPH By SW801	5 Mod				Prep Method: TX1005P			
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep:	06.07.1	9 11.00	В	asis: We	t Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 18.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 18.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 18.47	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 18.47	U	1
Surrogate	(	% Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	1-85-3	127	%	70-135	06.07.19 18.47		
o-Terphenyl	84	-15-1	118	%	70-135	06.07.19 18.47		



Seq Number: 3091755

## **Certificate of Analytical Results 626930**



### Tetra Tech- Midland, Midland, TX

Sample Id:	AH #5 (1-1.5')	Matrix:	Soil	Date Receive	d:06.07.19 10.46		
Lab Sample	Id: 626930-024	Date Collecte	d: 06.05.19 00.00				
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030							
Tech:	SCM			% Moisture:			
Analyst:	SCM	Date Prep:	06.07.19 15.30	Basis:	Wet Weight		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.08.19 08.13	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.08.19 08.13	U	1
Ethylbenzene	100-41-4	0.00200	0.00200		mg/kg	06.08.19 08.13		1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.08.19 08.13	U	1
o-Xylene	95-47-6	0.00210	0.00200		mg/kg	06.08.19 08.13		1
Total Xylenes	1330-20-7	0.00210	0.00200		mg/kg	06.08.19 08.13		1
Total BTEX		0.00410	0.00200		mg/kg	06.08.19 08.13		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	96	%	70-130	06.08.19 08.13		
4-Bromofluorobenzene		460-00-4	122	%	70-130	06.08.19 08.13		





#### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: Lab Sample Id:	<b>AH #5 (2-2.5')</b> 626930-025		Matrix: Date Collec	Soil cted: 06.05.19 00.00		Date Received:06.	07.19 10.4	б
Analytical Met	hod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep:	06.07.19 15.45		Basis: We	et Weight	
Seq Number:	3091714							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.99	4.99	mg/kg	06.10.19 10.53	U	1





### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id:         AH #5 (3-3.5')           Lab Sample Id:         626930-026		Matrix: Date Collect	Soil ed: 06.05.19 00.00		Date Received	:06.07.19 10	.46
Analytical Method: Chloride by EPA 30 Tech: CHE	0				Prep Method: % Moisture:	E300P	
Analyst: CHE		Date Prep:	06.07.19 15.45		Basis:	Wet Weight	
Seq Number: 3091714							
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride 1	6887-00-6	21.5	5.01	mg/kg	06.10.19 11.	14	1

Released to Imaging: 8/18/2021 9:18:43 AM





### Tetra Tech- Midland, Midland, TX

Sample Id:AH #5 (4-5.5')Lab Sample Id:626930-027		Matrix: Date Collect	Soil ed: 06.05.19 00.00		Date Received	:06.07.19	10.46	
Analytical Method: Chloride by EPA 30	00				Prep Method:	E300P		
Tech: CHE					% Moisture:			
Analyst: CHE		Date Prep:	06.07.19 15.45		Basis:	Wet Wei	ght	
Seq Number: 3091714								
Parameter	Cas Number	Result	RL	Units	Analysis D	ate Fla	ag	Dil
Chloride	6887-00-6	15.9	4.97	mg/kg	06.10.19 11.	36		1





#### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #5 (5-5.5')           Lab Sample Id:         626930-028		Matrix: Date Collect	Soil ed: 06.05.19 00.00		Date Received	:06.07.	19 10.46	
Analytical Method: Chloride by EPA 30	0				Prep Method:	E300P	•	
Tech: CHE					% Moisture:			
Analyst: CHE		Date Prep:	06.07.19 15.45		Basis:	Wet W	eight	
Seq Number: 3091714								
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate 1	Flag	Dil
Chloride 1	6887-00-6	52.6	5.00	mg/kg	06.10.19 11.	43		1





#### Tetra Tech- Midland, Midland, TX

Sample Id: Lab Sample I	<b>AH #6 (0-1')</b> Id: 626930-029		Matrix: Date Collec	Soil cted: 06.05.19 00.00		Date Received:06.	07.19 10.40	5
Analytical M Tech: Analyst: Seq Number:	ethod: Chloride by EP CHE CHE 3091714	A 300	Date Prep:	06.07.19 15.45		Prep Method: E30 % Moisture: Basis: We	00P t Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	15.1	5.00	mg/kg	06.10.19 11.51		1

Thatytear Method. 1111 by 5 000	15 1000				1	rep method. 17	10051	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prepa	. 06.07.1	19 11.00	В	asis: We	et Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 19.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	114	15.0		mg/kg	06.07.19 19.38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 19.38	U	1
Total TPH	PHC635	114	15.0		mg/kg	06.07.19 19.38		1
Surrogate		% Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	119	%	70-135	06.07.19 19.38		
o-Terphenyl	84	4-15-1	106	%	70-135	06.07.19 19.38		





### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #6 (0-1')           Lab Sample Id:         626930-029	Matrix: Soil Date Collected: 06.05.19 00.00	Date Received:06.07.19 10.46
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 15.30	Basis:	Wet Weight
Seq Number:	3091755				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.08.19 08.32	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.08.19 08.32	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.08.19 08.32	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.08.19 08.32	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.08.19 08.32	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.08.19 08.32	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.08.19 08.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	06.08.19 08.32		
4-Bromofluorobenzene		460-00-4	107	%	70-130	06.08.19 08.32		





#### Tetra Tech- Midland, Midland, TX

Sample Id:	AH #6 (1-1.5')		Matrix:	Soil		Date Received:06.0	07.19 10.4	·6
Lab Sample	Id: 626930-030		Date Colle	cted: 06.05.19 00.00				
Analytical M	lethod: Chloride by EP	PA 300				Prep Method: E30	0P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep:	06.07.19 15.45		Basis: Wet	Weight	
Seq Number:	: 3091714							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	< 5.00	5.00	mg/kg	06.10.19 11.58	U	1

Analytical Method: TPH By SW8015 Tech: ARM Analyst: ARM Seq Number: 3091703	5 Mod	Date Prep:	06.07.	19 11.00	%	rep Method: TX3 5 Moisture: 5asis: Wet	1005P Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 20.04	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	24.3	15.0		mg/kg	06.07.19 20.04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 20.04	U	1
Total TPH	PHC635	24.3	15.0		mg/kg	06.07.19 20.04		1
Surrogate 1-Chlorooctane		<b>Cas Number</b> %	Recovery	Units %	<b>Limits</b> 70-135	<b>Analysis Date</b> 06.07.19 20.04	Flag	
o-Terphenyl	84	4-15-1	129	%	70-135	06.07.19 20.04		



Seq Number: 3091755

## **Certificate of Analytical Results 626930**



### Tetra Tech- Midland, Midland, TX

Sample Id:	AH #6 (1-1.5')	Matrix:	Soil	Date Receive	d:06.07.19 10.46
Lab Sample	ld: 626930-030	Date Collecte	d: 06.05.19 00.00		
Analytical M	ethod: BTEX by EPA 8021B			Prep Method	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 15.30	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.08.19 08.51	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.08.19 08.51	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.08.19 08.51	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.08.19 08.51	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.08.19 08.51	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.08.19 08.51	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.08.19 08.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	06.08.19 08.51		
4-Bromofluorobenzene		460-00-4	115	%	70-130	06.08.19 08.51		





#### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #6 (2-2.5')           Lab Sample Id:         626930-031		Matrix: Date Collec	Soil cted: 06.05.19 00.00		Date Received:	06.07.19 10.4	6
Analytical Method: Chloride by EPA 3	800				Prep Method:	E300P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.45		Basis:	Wet Weight	
Seq Number: 3091714							
Parameter	Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Chloride	16887-00-6	53.6	5.05	mg/kg	06.10.19 12.0	)5	1





#### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #7 (0-0.1')           Lab Sample Id:         626930-035		Matrix: Date Collec	Soil sted: 06.05.19 00.00		Date Received:06.0	)7.19 10.4	16
Analytical Method: Chloride by EF	PA 300				Prep Method: E30	0P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.30		Basis: Wet	Weight	
Seq Number: 3091686		-					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.5	4.96	mg/kg	06.07.19 19.52		1
Analytical Method: TPH By SW80	15 Mod				Prep Method: TX	1005P	
Analytical Method: TPH By SW80 Tech: ARM	15 Mod				Prep Method: TX	1005P	
	15 Mod	Date Prep:	06.07.19 11.00		% Moisture:	1005P : Weight	
Tech: ARM	15 Mod	Date Prep:	06.07.19 11.00		% Moisture:		
Tech: ARM Analyst: ARM	15 Mod Cas Number	Date Prep: Result	06.07.19 11.00 <b>RL</b>		% Moisture:		Dil
Tech:ARMAnalyst:ARMSeq Number:3091703					% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: ARM Analyst: ARM Seq Number: 3091703 Parameter	Cas Number	Result	RL	Units	<ul> <li>Moisture:</li> <li>Basis: Wet</li> <li>Analysis Date</li> </ul>	t Weight Flag	

Motor Oli Range Hydrocarbons (MRO)	PHCG2835	107	15.0		mg/kg	06.07.19 20.29		1	
Total TPH	PHC635	1370	15.0		mg/kg	06.07.19 20.29		1	
-			% Recovery						
Surrogate		Cas Number		Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	104	%	70-135	06.07.19 20.29			
o-Terphenyl		84-15-1	92	%	70-135	06.07.19 20.29			





### Tetra Tech- Midland, Midland, TX

Sample Id: AH	I #7 (0-0.1')	Matrix:	Soil	Date Received:06.07.19 10.46
Lab Sample Id: 626	6930-035	Date Collected	: 06.05.19 00.00	
Analytical Method:	: BTEX by EPA 8021B			Prep Method: SW5030B
Tech: SCM	M			% Moisture:

2	5			1	
Tech:	SCM			% Moisture	:
Analyst:	SCM	Date Prep:	06.07.19 15.30	Basis:	Wet Weight
Seq Number:	3091755				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	06.08.19 09.10	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	06.08.19 09.10	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	06.08.19 09.10	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	06.08.19 09.10	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	06.08.19 09.10	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	06.08.19 09.10	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	06.08.19 09.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	06.08.19 09.10		
4-Bromofluorobenzene		460-00-4	101	%	70-130	06.08.19 09.10		





### Tetra Tech- Midland, Midland, TX

Seq Number: 3091703							
Analyst: ARM		Date Prep:	06.07.19 11.00		Basis: We	et Weight	
Tech: ARM					% Moisture:		
Analytical Method: TPH By SW	/8015 Mod				Prep Method: TX	1005P	
Chloride	16887-00-6	95.7	5.03	mg/kg	06.07.19 20.08		1
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number: 3091686							
Analyst: CHE		Date Prep:	06.07.19 15.30		Basis: We	et Weight	
Tech: CHE					% Moisture:		
Analytical Method: Chloride by	EPA 300				Prep Method: E3	00P	
Lab Sample Id: 626930-036		Date Collec	eted: 06.05.19 00.00				

Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 20.55	U	1	
Diesel Range Organics (DRO)	C10C28DRO	296	15.0		mg/kg	06.07.19 20.55		1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	43.8	15.0		mg/kg	06.07.19 20.55		1	
Total TPH	PHC635	340	15.0		mg/kg	06.07.19 20.55		1	
Surrogate		% Cas Number	Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		11-85-3	115	%	70-135	06.07.19 20.55			
o-Terphenyl	8	34-15-1	111	%	70-135	06.07.19 20.55			





### Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #7 (1-1.5')	Matrix: Soil	Date Received:06.07.19 10.46					
Lab Sample Id: 626930-036	Date Collected: 06.05.19 00.00						
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B					
Tech: SCM		% Moisture:					
Analyst: SCM	Date Prep: 06.07.19 15.30	Basis: Wet Weight					

Analyst: SCM 06.07.19 15.30 Basis: Date Prep: Seq Number: 3091755

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.08.19 09.29	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.08.19 09.29	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.08.19 09.29	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.08.19 09.29	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.08.19 09.29	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.08.19 09.29	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.08.19 09.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	154	%	70-130	06.08.19 09.29	**	
1,4-Difluorobenzene		540-36-3	84	%	70-130	06.08.19 09.29		





### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #7 (2-2.5')           Lab Sample Id:         626930-037	Matrix: Date Colle	Soil ected: 06.05.19 00.00		Date Received:06.0	07.19 10.46	ō
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: CHE				% Moisture:		
Analyst: CHE	Date Prep:	06.07.19 15.30		Basis: Wet	Weight	
Seq Number: 3091686						
Parameter Cas N	umber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-0	0-6 33.9	5.05	mg/kg	06.07.19 20.13		1





### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #7 (3-3.5')           Lab Sample Id:         626930-038		Matrix: Date Collect	Soil ted: 06.05.19 00.00		Date Received	1:06.07.	19 10.46	
Analytical Method: Chloride by EPA 300	0				Prep Method:	E300F	)	
Tech: CHE					% Moisture:			
Analyst: CHE		Date Prep:	06.07.19 15.30		Basis:	Wet W	Veight	
Seq Number: 3091686								
Parameter	Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Chloride 16	6887-00-6	162	5.05	mg/kg	06.07.19 20.	18		1





### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #7 (4-4.5')           Lab Sample Id:         626930-039	Matrix: Date Coll	Soil ected: 06.05.19 00.00		Date Received:06.0	07.19 10.46	i
Analytical Method: Chloride by EPA 300				Prep Method: E30	)0P	
Tech: CHE				% Moisture:		
Analyst: CHE	Date Prep	b: 06.07.19 15.30		Basis: We	t Weight	
Seq Number: 3091686						
Parameter Cas I	Number Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-	00-6 125	5.00	mg/kg	06.07.19 20.24		1





### Tetra Tech- Midland, Midland, TX

Sample Id:AH #7 (5-5.5')Lab Sample Id:626930-040		Matrix: Date Collected:	Soil 06.05.19 00.00	D	ate Received:	06.07.19	9 10.46	
Analytical Method: Chloride by EPA 300				Р	rep Method:	E300P		
Tech: CHE				%	Moisture:			
Analyst: CHE		Date Prep:	06.07.19 15.30	В	asis:	Wet We	ight	
Seq Number: 3091686								
Parameter C	as Number Re	sult RL	U	Jnits	Analysis Da	te Fl	ag	Dil
Chloride 168	87-00-6	120 4	.99 m	g/kg	06.07.19 20.2	.9		1





#### Tetra Tech- Midland, Midland, TX

Sample Id: AH #8 (0-1') Lab Sample Id: 626930-041		Matrix: Date Collec	Soil cted: 06.05.19 00.00		Date Received:06.	07.19 10.4	6
Analytical Method: Chloride by EF Tech: CHE Analyst: CHE Sea Number: 3091686	PA 300	Date Prep:	06.07.19 15.30		Prep Method: E30 % Moisture: Basis: We	00P t Weight	
Seq Number: 3091686 Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.7	4.95	mg/kg	06.07.19 20.34		1
Analytical Method: TPH By SW80 Tech: ARM	15 Mod		0.5 05 10 11 00		Prep Method: TX % Moisture:		
Analyst: ARM Seq Number: 3091703		Date Prep:	06.07.19 11.00		Basis: We	t Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	<15.0 1650 115	15.0 15.0 15.0	mg/kg mg/kg mg/kg	06.07.19 21.20 06.07.19 21.20 06.07.19 21.20	U	1 1 1
Total TPH	PHC635	1770	15.0	mg/kg	06.07.19 21.20		1

otal TPH	PHC635	1770	15.0		mg/kg	06.07.19 21.20		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	06.07.19 21.20		
o-Terphenyl		84-15-1	128	%	70-135	06.07.19 21.20		



## **Certificate of Analytical Results 626930**



Wet Weight

### Tetra Tech- Midland, Midland, TX

Sample Id: AH #8 (0-1')	Matrix: Soil	Date Received:06.07.19 10.46
Lab Sample Id: 626930-041	Date Collected: 06.05.19 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: SCM		% Moisture:

Tech:	SCM			% Moisture
Analyst:	SCM	Date Prep:	06.07.19 15.30	Basis:
Seq Number:	3091755			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.08.19 10.07	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.08.19 10.07	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.08.19 10.07	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.08.19 10.07	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.08.19 10.07	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.08.19 10.07	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.08.19 10.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	06.08.19 10.07		
1,4-Difluorobenzene		540-36-3	128	%	70-130	06.08.19 10.07		





### Tetra Tech- Midland, Midland, TX

Sample Id:	AH #8 (1-1.5')		Matrix:	Soil	]	Date Received:06	.07.19 10.4	.6
Lab Sample I	d: 626930-042		Date Coll	ected: 06.05.19 00.00				
Analytical M	ethod: Chloride by EP	A 300			]	Prep Method: E3	00P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Prep	e: 06.07.19 15.30	i	Basis: We	et Weight	
Seq Number:	3091686							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	35.1	5.00	mg/kg	06.07.19 19.47		1

Analytical Method: TPH By SW8015	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep:	06.07.	19 11.00	В	asis: We	t Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 21.45	U	1
<b>Diesel Range Organics (DRO)</b>	C10C28DRO	61.6	15.0		mg/kg	06.07.19 21.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 21.45	U	1
Total TPH	PHC635	61.6	15.0		mg/kg	06.07.19 21.45		1
Surrogate		% Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	11-85-3	126	%	70-135	06.07.19 21.45		
o-Terphenyl	84	4-15-1	108	%	70-135	06.07.19 21.45		





### Tetra Tech- Midland, Midland, TX

Sample Id: Lab Sample	<b>AH #8 (1-1.5')</b> Id: 626930-042	Matrix: Date Collecte	Soil d: 06.05.19 00.00	Date Receive	ed:06.07.19 10.46
Analytical N	fethod: BTEX by EPA 8021B			Prep Method	: SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 15.30	Basis:	Wet Weight

Tech:	SCM			% Mois
Analyst:	SCM	Date Prep:	06.07.19 15.30	Basis:
Seq Number:	3091755			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.08.19 09.48	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.08.19 09.48	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.08.19 09.48	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.08.19 09.48	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.08.19 09.48	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.08.19 09.48	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.08.19 09.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	73	%	70-130	06.08.19 09.48	1g	
1,4-Difluorobenzene		540-36-3	82	%	70-130	06.08.19 09.48		





### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #8 (2-2.5')           Lab Sample Id:         626930-043		Matrix: Date Collecte	Soil ed: 06.05.19 00.00		Date Received	:06.07.19 10.4	6
Analytical Method: Chloride by EPA 300					Prep Method:	E300P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	06.07.19 15.30		Basis:	Wet Weight	
Seq Number: 3091686							
Parameter Ca	s Number F	lesult I	RT.	Units	Analysis Da	ite Flag	Dil
Chloride 1688	37-00-6	224	5.04	mg/kg	06.07.19 20.3	39	1





### Tetra Tech- Midland, Midland, TX

Sample Id:AH #8 (3-3.5')Lab Sample Id:626930-044		Matrix: Date Collect	Soil ed: 06.05.19 00.00		Date Received	:06.07.1	9 10.46	
Analytical Method: Chloride by EPA 30	00				Prep Method:	E300P		
Tech: CHE					% Moisture:			
Analyst: CHE		Date Prep:	06.07.19 15.45		Basis:	Wet We	eight	
Seq Number: 3091714								
Parameter	Cas Number	Result	RL	Units	Analysis D	ate F	lag	Dil
Chloride	16887-00-6	175	4.96	mg/kg	06.10.19 09.	33		1





### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #8 (4-4.5')           Lab Sample Id:         626930-045		Matrix: Date Collec	Soil cted: 06.05.19 00.00		Date Received	1:06.07	7.19 10.46	
Analytical Method: Chloride by EPA 3	00				Prep Method:	E300	Р	
Tech: CHE					% Moisture:			
Analyst: CHE		Date Prep:	06.07.19 15.45		Basis:	Wet V	Weight	
Seq Number: 3091714								
Parameter	Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Chloride	16887-00-6	52.6	4.95	mg/kg	06.10.19 09.	.40		1





### Tetra Tech- Midland, Midland, TX

Sample Id:         AH #8 (5-5.5')           Lab Sample Id:         626930-046		Matrix: Date Collect	Soil ed: 06.05.19 00.00		Date Received	1:06.07.	19 10.46	
Analytical Method: Chloride by EPA 30	0				Prep Method:	E300P		
Tech: CHE					% Moisture:			
Analyst: CHE		Date Prep:	06.10.19 16.45		Basis:	Wet W	eight	
Seq Number: 3091810								
Parameter	Cas Number	Result	RL	Units	Analysis D	ate ]	Flag	Dil
Chloride 1	6887-00-6	12.0	5.02	mg/kg	06.11.19 00.	46		1



# **Flagging Criteria**



Page 105 of 159

- 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.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory 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** EOG Sibley 1 Fed Com 1

Analytical Method:	Chloride by EPA 30	0						Pr	ep Metho	od: E300	)P	
Seq Number:	3091686			Matrix:	Solid				Date Pre	ep: 06.0	7.19	
MB Sample Id:	7679458-1-BLK		LCS San	nple Id:	7679458-	-BKS		LCSI	D Sample	Id: 7679	9458-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30	0						Pı	ep Meth	od: E300	0P	
Seq Number:	3091714			Matrix:	Solid				Date Pr	ep: 06.0	7.19	
MB Sample Id:	7679459-1-BLK		LCS Sar	nple Id:	7679459-1	-BKS		LCS	D Sample	e Id: 7679	9459-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lin	uit Units	Analysis Date	Flag
Chloride	< 5.00	250	238	95	238	95	90-110	0	20	mg/kg	06.10.19 08:49	

Analytical Method:	Chloride by EPA 30	00						P	rep Meth	od: E300	)P	
Seq Number:	3091807			Matrix:	Solid				Date Pr	ep: 06.0	8.19	
MB Sample Id:	7679536-1-BLK		LCS San	nple Id:	7679536-	1-BKS		LCS	D Sample	e Id: 7679	9536-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	uit Units	Analysis Date	Flag
Chloride	<5.00	250	250	100	251	100	90-110	0	20	mg/kg	06.10.19 16:29	

Analytical Method:	Chloride by EPA 30	00						Pı	rep Meth	od: E30	)P	
Seq Number:	3091810			Matrix:	Solid				Date Pr	ep: 06.1	0.19	
MB Sample Id:	7679605-1-BLK		LCS San	nple Id:	7679605-1	I-BKS		LCS	D Sampl	e Id: 7679	9605-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag
Chloride	< 5.00	250	241	96	241	96	90-110	0	20	mg/kg	06.10.19 18:03	

Analytical Method:	Chloride by EPA 3	00						Р	rep Meth	od: E30	0P	
Seq Number:	3091686			Matrix:	Soil				Date Pr	ep: 06.0	7.19	
Parent Sample Id:	626930-001		MS Sar	nple Id:	626930-00	01 S		MS	D Sample	e Id: 626	930-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag
Chloride	50.8	248	312	105	304	102	90-110	3	20	mg/kg	06.07.19 18:23	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{aligned} \text{RPD} &= 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ \text{[D]} &= 100^* (\text{C}) / \text{[B]} \end{aligned}$ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

.



#### **Tetra Tech- Midland** EOG Sibley 1 Fed Com 1

Analytical Method: Chloride by EPA 300 E300P Prep Method: Seq Number: 3091686 Matrix: Soil Date Prep: 06.07.19 MS Sample Id: 626930-009 S MSD Sample Id: 626930-009 SD Parent Sample Id: 626930-009 MS MS Limits %RPD RPD Limit Units Parent Spike MSD MSD Analysis Flag Parameter Result Amount Result %Rec Result %Rec Date Chloride < 0.857 250 259 104 252 101 90-110 3 20 06.07.19 19:36 mg/kg

Analytical Method:	Chloride by EPA 30	)0						Pr	ep Meth	od: E30	0P	
Seq Number:	3091714			Matrix:	Soil				Date Pr	ep: 06.0	)7.19	
Parent Sample Id:	626930-025		MS San	nple Id:	626930-02	25 S		MS	D Sample	e Id: 626	930-025 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	it Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30	00						P	rep Meth	od: E300	)P	
Seq Number:	3091714		Matrix: Soil					Date Prep: 06.07.19				
Parent Sample Id:	626984-001		MS San	nple Id:	626984-00	01 S		MS	984-001 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	uit Units	Analysis Date	Flag
Chloride	17.1	250	266	100	267	100	90-110	0	20	mg/kg	06.10.19 09:11	

Analytical Method:	Chloride by EPA 30		Prep Method:				OP						
Seq Number:	3091807		Soil			Date Pr	ep: 06.0	08.19					
Parent Sample Id:	626930-017		MS Sample Id: 626930-017 S					MS	D Sample	e Id: 626	626930-017 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag	

Analytical Method:	Chloride by EPA 30	00						Р	rep Meth	od: E30	0P	
Seq Number:	3091807		Matrix: Soil					Date Prep: 06.08.19				
Parent Sample Id:	626931-011		MS Sar	nple Id:	626931-01	1 S	MSD Sample Id: 6				931-011 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	uit Units	Analysis Date	Flag
Chloride	132	252	381	99	380	98	90-110	0	20	mg/kg	06.10.19 16:48	

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



Flag

#### **Tetra Tech- Midland** EOG Sibley 1 Fed Com 1

Analytical Method: Chloride by EPA 300 E300P Prep Method: Seq Number: 3091810 Matrix: Soil Date Prep: 06.10.19 MS Sample Id: 627045-001 S MSD Sample Id: 627045-001 SD Parent Sample Id: 627045-001 MS MS %RPD RPD Limit Units Parent Spike MSD MSD Limits Analysis Parameter Result Amount Result %Rec Result %Rec Date Chloride 3.41 242 96 90-110 0 20 06.10.19 18:25 248 241 96 mg/kg

Analytical Method:	Chloride by EPA 30	00						P	rep Meth	od: E300	)P		
Seq Number:	3091810	Matrix:	rix: Soil Date Pre					ep: 06.1	: 06.10.19				
Parent Sample Id:	627046-004		MS Sample Id: 627046-004 S				MSD Sample Id:				627046-004 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	uit Units	Analysis Date	Flag	
Chloride	268	249	497	92	496	92	90-110	0	20	mg/kg	06.11.19 00:18		

Analytical Method:	TPH By S			Prep Method: TX1005P									
Seq Number:	3091703			]	Solid	Date Prep: 06.07.19							
MB Sample Id:	7679503-1	-BLK		LCS San	nple Id:	7679503-2	I-BKS	LCSD Sample Id: 7679503-1-BSD					
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	) RPD Limi	t Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<8.00	1000	993	99	1030	103	70-135	4	20	mg/kg	06.07.19 13:13	
Diesel Range Organics	(DRO)	<8.13	1000	1110	111	1030	103	70-135	7	20	mg/kg	06.07.19 13:13	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		97		1	02		102		-	70-135	%	06.07.19 13:13	
o-Terphenyl		76		1	15		94		-	70-135	%	06.07.19 13:13	

Analytical Method: TPH By	Prep Method: TX1005P												
Seq Number: 3091703	Number: 3091703							Date Prep: 06.07.19					
Parent Sample Id: 626930-0	01		MS San	nple Id:	626930-00	01 S		MS	SD Sample I	d: 626	930-001 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)	12.8	999	976	96	982	97	70-135	1	20	mg/kg	06.07.19 14:29		
Diesel Range Organics (DRO)	108	999	973	87	1090	98	70-135	11	20	mg/kg	06.07.19 14:29		
Surrogate				AS Rec	MS Flag	MSI %Re		_	limits	Units	Analysis Date		
1-Chlorooctane			1	01		102		7	0-135	%	06.07.19 14:29		

106

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

o-Terphenyl

[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

06.07.19 14:29

87

70-135

%


BORATORIES

# **Tetra Tech- Midland**

EOG Sibley 1 Fed Com 1

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 8021</b> 3091755 7679572-1-BLK	B	LCS San	Matrix: nple Id:		1-BKS			Prep Metho Date Pre SD Sample	p: 06.0	5030B )7.19 9572-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.0871	87	0.0927	93	70-130	6	35	mg/kg	06.08.19 01:18	
Toluene	< 0.000455	0.0998	0.0917	92	0.0974	97	70-130	6	35	mg/kg	06.08.19 01:18	
Ethylbenzene	< 0.00200	0.0998	0.0950	95	0.101	101	70-130	6	35	mg/kg	06.08.19 01:18	
m,p-Xylenes	< 0.00399	0.200	0.193	97	0.204	101	70-130	6	35	mg/kg	06.08.19 01:18	
o-Xylene	< 0.00200	0.0998	0.0973	97	0.103	103	70-130	6	35	mg/kg	06.08.19 01:18	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	114		ç	98		97		-	70-130	%	06.08.19 01:18	
4-Bromofluorobenzene	100		1	02		102			70-130	%	06.08.19 01:18	

Analytical Method:	BTEX by EPA 8021	B						I	Prep Metho	d: SW:	5030B	
Seq Number:	3091760		]	Matrix:	Solid				Date Pre	ep: 06.0	7.19	
MB Sample Id:	7679576-1-BLK		LCS San	nple Id:	7679576-1	1-BKS		LCS	SD Sample	Id: 7679	9576-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.000383	0.0994	0.0943	95	0.0850	85	70-130	10	35	mg/kg	06.08.19 03:13	
Toluene	< 0.000453	0.0994	0.0919	92	0.0836	84	70-130	9	35	mg/kg	06.08.19 03:13	
Ethylbenzene	< 0.000561	0.0994	0.100	101	0.0914	91	70-130	9	35	mg/kg	06.08.19 03:13	
m,p-Xylenes	< 0.00101	0.199	0.203	102	0.184	92	70-130	10	35	mg/kg	06.08.19 03:13	
o-Xylene	< 0.000342	0.0994	0.0998	100	0.0918	92	70-130	8	35	mg/kg	06.08.19 03:13	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	88		9	98		103		7	0-130	%	06.08.19 03:13	
4-Bromofluorobenzene	86		9	99		91		7	0-130	%	06.08.19 03:13	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3091755 626632-001	B	I MS Sam	Matrix: ple Id:		01 S			Prep Metho Date Pre SD Sample	p: 06.0	5030B 7.19 532-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	) RPD Limi	t Units	Analysis Date	Flag
Benzene	0.000673	0.0996	0.0742	74	0.0339	33	70-130	75	35	mg/kg	06.08.19 01:56	XF
Toluene	0.00109	0.0996	0.0826	82	0.0497	49	70-130	50	35	mg/kg	06.08.19 01:56	XF
Ethylbenzene	< 0.000563	0.0996	0.0854	86	0.0530	53	70-130	47	35	mg/kg	06.08.19 01:56	XF
m,p-Xylenes	< 0.00398	0.199	0.180	90	0.0971	49	70-130	60	35	mg/kg	06.08.19 01:56	XF
o-Xylene	0.000733	0.0996	0.0886	88	0.0489	48	70-130	58	35	mg/kg	06.08.19 01:56	XF
Surrogate				IS Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene			9	5		91		7	70-130	%	06.08.19 01:56	
4-Bromofluorobenzene			10	)3		108		7	70-130	%	06.08.19 01:56	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{aligned} \text{RPD} &= 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ \text{[D]} &= 100^* (\text{C}) / \text{[B]} \end{aligned}$ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

Page 77 of 84





# **Tetra Tech- Midland**

EOG Sibley 1 Fed Com 1

ORATORIES

Analytical Method: Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3091760 626930-001	lB	MS San	Matrix: nple Id:		)1 S			Prep Method Date Prep SD Sample I	o: 06.0	5030B 7.19 930-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	ORPD Limit	Units	Analysis Date	Flag
Benzene	< 0.000383	0.0996	0.0826	83	0.0855	85	70-130	3	35	mg/kg	06.08.19 03:51	
Toluene	0.000591	0.0996	0.0801	80	0.0795	78	70-130	1	35	mg/kg	06.08.19 03:51	
Ethylbenzene	< 0.000563	0.0996	0.0833	84	0.0799	79	70-130	4	35	mg/kg	06.08.19 03:51	
m,p-Xylenes	< 0.00101	0.199	0.170	85	0.160	79	70-130	6	35	mg/kg	06.08.19 03:51	
o-Xylene	0.000451	0.0996	0.0854	85	0.0807	79	70-130	6	35	mg/kg	06.08.19 03:51	
Surrogate				1S Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	04		105		7	70-130	%	06.08.19 03:51	
4-Bromofluorobenzene			ç	99		101		7	70-130	%	06.08.19 03:51	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{aligned} \text{RPD} &= 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ \text{[D]} &= 100^* (\text{C}) / \text{[B]} \end{aligned}$ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

Received by G	CD: 5	/ <b>7/20</b>	21	11:17	23 /	1M-	<u> </u>	<b></b>	· · ·			I		Г		-			- C	2 7	7 3			l S	Pag	e <u>11</u> 1 of 159
Received by G	siniquisried by	slinguished by	bilingaished by	Singuished by											ONLY )		LAB #		Comments:	Heceiving Laboratory:		county, state)	Project Name:		F	nalysis Re
	vare: lime:	(	r: l ( Date: Time:	n monty C/S/19 1526	14 # 2 (3-3.5)	AH # 2 (1-2.5)	AM#2 (1-1.5)	ない能としていう	AH #1 (8-5.5)	AH&I (4-4.8')	DH # 1 (3-3.5')	R4 #1 (2-2.5)	AH = 1 (1-1-6')	RH#1 (0~1')			SAMPLE IDENTIFICATION			atory: XCNC6	eo (" ) ares kennedk	: Eddy CO, NM	SIBLEY I FED COM I	20M	Tetra Tech, Inc.	111 of 159 Analysis Request of Chain of Custody Record
ORIGIN	Hacewed	Z	Received by	Received by:	k				_					6/5/12	DATI	E	YEAR: 2019	SAM		Sampler Signature:		Project #:		Site Manager:		
ORIGINAL COPY	Sy:	X	2	A WAY										iets.	TIME			SAMPLING		nature: To N		112 C-MO-		n wike		
	d	<u>B</u>	5	6/5	Ŷ	999 <b>1</b>	Nemeoslogo.	********	berassa			W22000 2000		×	WA1 SOII			MATRIX		IN LEGARDA		-01787		CARMONA	901W Wa Midlanc Tel (4 Fax (4	
	Date: Time	Fo	ate; Time	<u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u>	Ŵ	2003eest-wede	Champion and Party					12 cm - cm - cm		×	HCL HNC ICE			PRESERVATI METHOD		LDA				67	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
	<u>e</u>	8	le:	ime: ISING							-		1		None # CO	·····		VE.							0	
		$\square$			τ	z	z	T	-+	z	7	τ	۲		FILTE											
(C <sub>i</sub>			2				×	X					X		BTEX	802	21B	BTE	X 8260E	3						
(Circle) HAND DELIVERED			nle Ter	LAB USE			×	*					×	X	трн трн				C35) · DRO - C	DRO - I	MRO)					E
			mnerati	USE USE						_					PAH Total			j As B	a Cd Cr I	Pb Se I	Нg		(î	) )		9
		ة <b>در</b>														Met	als A		Ba Cd Cr					A		2
			X												TCLP RCI			latiles					9	NAL)		
FEDEX 1	special	lush C	RUSH:	ST.		_									GC/M									I SIS I		
UPS .	Repor	harges	RUSH: Same Day	STANDARD											PCB's	s 808			270C/628	>				ANALYSIS REQUEST		
Tracking	t Limits	Rush Charges Authorized		NRD											NORM PLM (	(Asbe	estos	.)						JEST		Page
j #:	or TR	rized	24 hr		$\prec$	$\overline{}$	$\times$	×	×	$\times$	$\times$	$\times$	$\times$		Chlori Chlor		Su	lfate	TDS							je
	Special Report Limits or TRRP Report		48 hr							_					Gene Anion				nistry (se e	ee atta	ched li	st)		-		angle I
	port	(	r R H				1																			of
			J																							5
Released to h	naging	<del>z• 8/1</del>	8/2	021 9:	18.	13 1	M					Pa	age 7		Hold						Final	1.000				

eived by	<u> </u>	/7/202	111:1	7:33	AM	ι												Т	=				Pag	e <u>1</u> 12 of 1
ceived by	Relinquished by	neimpinen juiten	Bolinguishod by	Belinnuished h										LAB USE )	LAB #		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	(F)	Analysis Re
	K		mond	PH ₩ 4 (3-3.5')	3H # 4	QH # 4 (1-1.5')	10~1 H H H (0~1)	AM # 3 ( 5 - 5 - 5 ')	ан <del>в</del> 3 (и-и.s')	AH#3 (3-3.5`)	QH#3 (2-2.5)	AN # 3 (1-1.5')	AH #3 (0-1')		SAM			itory: メモルとら	tos	Eddy comm	SIGLEY I FED L	109 10	Te	Analysis Request of Chain of Custody Record
	Date: Time:														SAMPLE IDENTIFICATION						com-1		tra Tech, Inc.	istody Record
ORIGINAL COPY	Received by?	Here i Per		Received hv:	95 Marganitic								6/5/12	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #: 21		Site Manager:	•	
COPY		N.	20											TIME WATEF	2			re: To WY		2126-10-0175		WIKE CAD		
	'Date:	$\left( \sqrt{1} \right)^{\text{Date:}}$	6/5/19	Tata:								printing -	×	SOIL HCL				Lenarda		187		CARMONA	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
	Time:			Time:								*******	· ×	HNO3 ICE None		PRESERVATIVE METHOD		,					rt, Ste 100 5 79705 2-4559 2-3946	
		CMJ	26			1	- 2	4	1 1	11	4   1	- 7		# CONT										
Ô		Sa		τ	- 7	2 X	۔ ۲	τ	2	2	2	r X		FILTERE			X 8260B							
(Circle) HẠŃD DELIVERÌED	ý V	Sample Temperature				X						X	×	TPH TX1 TPH 801				RO - N	/RO)					le 26430
AND D		smpera	ONLY		1									PAH 827 Total Met	'0C							<u>î</u>		6
ELIVEI	C.01	<b>と</b>												TCLP Me	tals A	g As I								Ź
														TCLP Vo TCLP Se							<u> </u>	2 X		K,
FEDEX		Rush Charges Auth		DKC.										RCI GC/MS V	/ol. 8:	260B /	624					ALYSIS REQUEST		
( UPS	ial Re	rr. Sc Chan	TAN											GC/MS S	iemi. '	Vol. 8						S RE(		
	port Li	jes Au מוויפ ש	STANDARD	$\vdash$										PCB's 80 NORM										-
Tracking #:	mits o	0		×	×	X	×	X	X	×	X	×	X	PLM (Ast Chloride	pestos	5)						2.		Page
	r TRR	-		Ê						-				Chloride		lfate	TDS	a atto	ched "	st)	_	N		ł
	Special Report Limits or TRRP Report	40 11			-									General Anion/Ca				e alla	uneu II	317	_`	-		2
	oort			F																				of
		U	Y'	$\vdash$																				5
				-	1	· · · · ·																		ווטי

Received by C	)CD: 5	/7/20	021	<i>11:17:</i>	33 /	<u>4</u> <i>M</i>					r –		<del></del>						0	77		Γŝτ	<b>1</b> 70	0	Page	113 of 15
	Heiinquisned by:		Relinquished by:	Relinquished by:												LAB #			Comments:	Receiving Laboratory:	nvoice to:	Project Location: (county, state)		Client Name:	(7	Analysis Rec
	Date: Time:	7	r: 🗘 Date: Time:	1. Date: Time: m monty 6/5/12 1526	AH HO (1-1.5')	AH # 6 (0-1)	oh # 5 (5.5.5')	ΩH # S (4-4.5')	QN#5 (3-2.5')	2H#5(2-1.5')	AH & 5 (1-1.5)	BH# \$ (0-1)	AH # 4 ( \$-5.5`)	Ан ± ч ( u-ч.s`)		SAMPLE IDENTIFICATION				ttory: Xenco	Eon - James Kenemedy	Eddy CUINN	SIGLEY I FED COMI	Ely	Tetra Tech, Inc.	113 of 15 Analysis Request of Chain of Custody Record
ORIGINAL COPY	Heceived by:	KIK	Referenced by	Received by:	Ł							en e		61511N	DATI TIME	-	YEAR: 2019	SAMPLING		Sampler Signature:		Project #: 2126 - M.D		Site Manager: ทางเนฮ		
×	U	<u>l</u> e	P	(0/5/19)	4									X	WA1 SOII			MATRIX		TONY LEGARDA		10-01787		re carmona	901W Wali Midland, Tel (433 Fax (43	
	Date: lime:	1	ate: / Time:	10, 15:26	¥									×	HCL HNC ICE Non			PRESERVATIVE		DIA					901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
		10m		6	1 2	ب 2	۲ ۲		N N	ч I	2 V	- 7	-	-	# CO FILTI											
(Circle) HAND DELIVERED		d.5/03	Sample Temperature	LAB USE	ר × א ד	) × ×					XX	×			PAH Total	TX10 8015  8270 Metal	05 (E M ( G C Is Ag	Ext to GRO - As B	DRO - 0	DRO - I	Hg `					( ) JA
FEDEX	<u>/</u>	Π										· · · · · ·			TCLP TCLP RCI GC/N	Volat Sem S Vol	tiles i Vola I. 82	atiles 60B /			Hg			ANALYSIS REQUEST		126930
UPS Tracking #: _	Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day 24 hr	s: STANDARD	X		×	X	X	K	×	×	×	X	PCB <sup>1</sup> NORI PLM Chlor	808 A (Asbe) de	2 / 60 stos)	08						REQUEST fv Method N		Page
	FRRP Report	4	hr 48 hr 72 hr												Chloi Gene Anior	ral W		Cher	TDS mistry (s ce	ee atta	ched I	ist)		NO /		3 of
Released to 1	naging	<u>z: 8/1</u>	18/2	<u>021 9:</u>	18:4	13 /	(M					Pa	age 8	31 o	Hold						Final	1.000				v

Received by	DCD: 3 Relinquished by: Date: Time:		Relinquished by: Time:	Reliquished by: March Date: Time:	AH #7 [4-4.5']	RH #7 (2-3.5°)	44 #7 (22.5')	AM & 7 (1-1.5)	AH & 7 (0-1')	An #6 (5-5.5)	Анны ( ч-ч)	AH#6 (3-3.5')	AN&6 (2-2.5')	LAB # SAMPLE IDENTIFICATION		Comments:	Receiving Laboratory:	Invoice to: Eog - James Konnedy	Project Location: (county, state) Feldy to provo	Project Name: SIBLEY   Fed com	Client Name: E೮ムヘ	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	2: Peteived by: Date: Time:		e: Refeliyed by: A J Gate: Time:	1526 Control 6/5/107 15									X X Also	DATE TIME VATER SOIL HCL HNO3 ICE None	SAMPLING MATRIX PRESERVATIVE		Sampler Signature: Tony Leyarda		Project #: 2126 ~ m 0 ~ 017 87		Site Manager: MIKE しみながらがで	_	
(Circle) HAND, GELIVERED FEDEX UPS Tracking #:	U'UUS Special Report Limits or TRRP Report	<u> </u>	Sample Temperature X RUSH: Same Day 24 hr 48 hr 72 Thy						*		X			# CONTAINE FILTERED (\ BTEX 8021B TPH TX1005 TPH 8015M ( PAH 8270C Total Metals / TCLP Metals TCLP Volatile TCLP Semi V RCI GC/MS Vol. 4 GC/MS Vol. 4 GC/MS Semi. PCB's 8082 / NORM PLM (Asbesto Chloride Chloride S General Wat Anion/Cation	(/N) BTII (Ext tc (GRO Ag As E s colatiles B260B Vol. 6 608 S S colatiles B260B Vol. 6 608 S S S S S S S S S S S S S S S S S S S	EX 8260E 2 C35) - DRO - ( 3a Cd Cr Ba Cd Cr Ba Cd Cr 3 / 624 3270C/62 TDS emistry (s	DRO - Pb Se Pb Se 55	Hg Hg	st)		ANALYSIS REQUEST		6 Heg 30 Page 4 of 5

## Re

114 of 159 D

•

Keceivea by C	Relinquished by:	Relinquished by:	Helinguished by:										( LAB USE )	LAB #			Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	<b>A</b>	Analysis Re
	y: Date: Time:	y: Oate: Time:	many co/s/				AH # 8 ( 5-5.5')	AH #8 [4-4.5')	AH # & (3-3.5)	нн <del>4</del> 8 ( 1-7.5)	PH #8 (1~1.5')	AH # 8 (0-1')		SAMPLE IDENTIFICATION				atory: Kenco	& Ebs - James Kennedy	: Bagan 101 MMV	SIBLEY I GED LOUN I	EO C	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:	Recented	Received by:				4	ere eret to				6/5/19	DATE TIME	TEAH: 2019	SAMPLING			Sampler Signature:		Project #: 2 1 2 4 - v		Site Manager:		
	Dăte:		Date:				A			percentropic		×	WATE SOIL HCL	R	MAIRIX	┥		Tony LEGARVIT		12L19-01-7		ELARMONA	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
	e: Time:	Time:	19 15216			4	<		eowd salada			×	HNO3 ICE None		METHOD	PRESERVATIVE		7					rreet, Ste 100 xxas 79705 682-7956 682-3946	
	ļ	ar			_		-	-	-	4   1	-		# CON			-								
Ĉ							٤ ا	Ž	Z	Z	Z X	×	FILTER BTEX 8	3021	в в	TEX	< 8260B		L			I		
(Circle) HAND DELIVERED	101	Sample Temperature	LAB USE								×	$\times$	TPH TX TPH 80	)15M	I ( GR			RO -	MRO)					
ND DEI		nperature	USE										PAH 82 Total Me	etals	Ag As									
IVERB		- 0 <sup>3</sup>	RE										TCLP V	olatil	les		a Cd Cr	Pb Se	Hg					
D FEDEX													TCLP S RCI	emi	Volatil	les						ANALYSIS REQUEST		
	Special Report Limits or TRRP Report	RUSH: Same Day	STA										GC/MS GC/MS					5				SIS RI		
UPS Tr	Report 1	Same I	STANDARD										PCB's 8 NORM	8082	2 / 608							EQUE		
Tracking #:	limits c							$\overline{\times}$	×	×	X		PLM (A Chloride		tos)							2		Page
	"TRR	7									•••	- \	Chlorid Genera	е	Sulfat		TDS	00 attr	iched "	st)		Z		
	P Repo	48 hr											Genera Anion/C							~,				v
	ort	(72 hr																						of
		U	Ø			-	$\square$						لماحا											U)
Released o	naging:	8/18/	<u>2021 9:</u>	18:43	M					Pa	age 8		Hold 84						Final	1.000				

Received by <u>OCD: 5/7/2021 11:17:33 AM</u>

Page 115 of 159

Received by OCD: 5/7/2021 11:17:33 AM



## **XENCO** Laboratories



## Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland	Acceptable Tempe	rature R	ange: 0 - 6 degC
Date/ Time Received: 06/07/2019 10:46:00 AM	• •		eptable Range: Ambient
Work Order #: 626930	Temperature Meas	uring de	vice used : R8
Sar	nple Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.3	
#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?	I	N/A	
#6*Custody Seals Signed and dated?	I	N/A	
#7 *Chain of Custody present?	•	<b>Yes</b>	
#8 Any missing/extra samples?	·	<b>Yes</b>	Did not receive containers for samples 032, 033 & 034
#9 Chain of Custody signed when relinquished/	received?	<b>Yes</b>	
#10 Chain of Custody agrees with sample labels	s/matrix?	<b>Yes</b>	
#11 Container label(s) legible and intact?	•	<b>Yes</b>	
#12 Samples in proper container/ bottle?	•	Yes	
#13 Samples properly preserved?	•	<b>Yes</b>	
#14 Sample container(s) intact?	•	<b>Yes</b>	
#15 Sufficient sample amount for indicated test(	s)?	<b>Yes</b>	
#16 All samples received within hold time?	•	<b>Yes</b>	
#17 Subcontract of sample(s)?	I	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: JHAJ

Date: 06/07/2019

Checklist reviewed by: Jessica Kramer

Date: 06/07/2019



July 16, 2019

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

RE: SIBYL #1 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 07/15/19 13:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

## Sample ID: BOTTOM HOLE 1 ( 2' BEB ) (H902415-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	,						
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 2 ( 2' BEB ) (H902415-02)

BTEX 8021B	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	,						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 3 ( 2' BEB ) (H902415-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 4 ( 2' BEB ) (H902415-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142							
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 5 ( 2' BEB ) (H902415-05)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	17.3	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	,						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 6 ( 2' BEB ) (H902415-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	121	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	23.2	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	113 9	37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 7 ( 2' BEB ) (H902415-07)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	77.7	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	19.4	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	,						
Surrogate: 1-Chlorooctadecane	110 9	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 8 ( 2' BEB ) (H902415-08)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	38.9	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	98.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	104 9	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 9 ( 2' BEB ) (H902415-09)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	103 9	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 10 ( 2' BEB ) (H902415-10)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	99.6	% 41-142							
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 11 ( 1.5' BEB ) (H902415-11)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	,						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 12 ( 1.5' BEB ) (H902415-12)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	,						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 13 ( 1.5' BEB ) (H902415-13)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142							
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 14 ( 1.5' BEB ) (H902415-14)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	2						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 15 ( 1.5' BEB ) (H902415-15)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	,						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 16 ( 1.5' BEB ) (H902415-16)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	97.1	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 17 ( 1.5' BEB ) (H902415-17)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	99.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 18 ( 1.5' BEB ) (H902415-18)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	100 9	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 19 ( 1.5' BEB ) (H902415-19)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	100 \$	% 41-142	,						
Surrogate: 1-Chlorooctadecane	104 9	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: BOTTOM HOLE 20 ( 2' BEB ) (H902415-20)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	114 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	116 9	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

## Sample ID: NSW - 1 (H902415-21)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2019	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142	2						
Surrogate: 1-Chlorooctadecane	110	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: NSW - 2 (H902415-22)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	2						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: SSW - 1 (H902415-23)

BTEX 8021B	mg,	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142							
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: SSW - 2 (H902415-24)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	,						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: SSW - 3 (H902415-25)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	22.8	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	,						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: ESW - 1 (H902415-26)

BTEX 8021B	mg/	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	96.9	% 41-142							
Surrogate: 1-Chlorooctadecane	101 9	37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

#### Sample ID: ESW - 2 (H902415-27)

BTEX 8021B	mg/	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142							
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

# Sample ID: ESW - 3 (H902415-28)

BTEX 8021B	mg,	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>160</b> 16.0		07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142							
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

# Cardinal Laboratories

# \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

# Sample ID: WSW - 1 (H902415-29)

BTEX 8021B	mg	/kg	Analyze	d By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTEX	<0.300	0.300	07/16/2019	ND						
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>16.0</b> 16.0		07/16/2019	ND	432	108	400	0.00		
TPH 8015M	mg	/kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33		
DRO >C10-C28*	65.7	10.0	07/16/2019	ND	189	94.7	200	6.79		
EXT DRO >C28-C36	17.8	10.0	07/16/2019	ND						
Surrogate: 1-Chlorooctane	102	% 41-142	2							
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7							

### Cardinal Laboratories

# \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

# Sample ID: WSW - 2 (H902415-30)

BTEX 8021B	mg/	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0 16.0		07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	106 9	% 37.6-14	7						

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

# Sample ID: WSW - 3 (H902415-31)

BTEX 8021B	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b> 16.0		07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	,						
Surrogate: 1-Chlorooctadecane	111 9	37.6-14	7						

# Cardinal Laboratories

# \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

# \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Libratories.

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 5/7/2021 11:17:33 AM

Image: State:         Time:         State:         Time:         P.O. #:           Image: State:         Time:         Zip:         1101         Atm: Succession         Atm: Sucession <td< th=""><th></th><th>Relinquished By: Delivered By: (Circle One)</th><th>Relinquished By:</th><th>analyses. All claims including those for neglig service. In no event shall Cardinal be liable it affiliates or successors arising out of or related</th><th>10 By Thomas Cardin</th><th></th><th>8 Buttom</th><th>7 BUFFIM</th><th>6 Bortom</th><th>5 Bottom</th><th>4 Button</th><th>3 Bortom</th><th>2 Buxtom</th><th>1 Batton</th><th>Lab I.D. \$</th><th>FOR LAB USE ONLY</th><th>Sampler Name:</th><th>Project Location:</th><th>Project Name: Siby</th><th>Project #: 212 C-110-</th><th>Phone #: 432 - 200</th><th>city: Midland</th><th>Address: 901 W.</th><th>Project Manager: Mike</th><th>Company Name: 104</th></td<>		Relinquished By: Delivered By: (Circle One)	Relinquished By:	analyses. All claims including those for neglig service. In no event shall Cardinal be liable it affiliates or successors arising out of or related	10 By Thomas Cardin		8 Buttom	7 BUFFIM	6 Bortom	5 Bottom	4 Button	3 Bortom	2 Buxtom	1 Batton	Lab I.D. \$	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: Siby	Project #: 212 C-110-	Phone #: 432 - 200	city: Midland	Address: 901 W.	Project Manager: Mike	Company Name: 104
Zip:     110       Zip:     1101       Attn::     Tumes       Address:     \$Suff       Address:     \$Suf	SH TPH 801S M Chloride ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS		Date: 7-15-19	gence and any other cause whatsoever shall be gence and any other cause whatsoever shall be or incidental or consequental damages, including d to the performance of services hereunder by C	· Hule to (2'SEB)	Hole 9 (L	Huc & Ci	Hale ) (2	Hole 6 (2:	Hule S (2"	Hole Y (2)	Have 3 (2)	tole 2 (2)	Hole 1 (2'	Sample I.D.		>	6.1	) (on	18110	1419-	State:	2		in Jech
P.O. #: Company: EUC Company: EUC Attn: Sume's Kr.n.eJH Address: SSO4 Unaufris; R City: Midlard Charles: SSO4 Unaufris; R City: Midlard Charles: Myte Fax #: PRESERV: SAMPLING Fax #: PRESERV: SAMPLING Fax #: Fax #: PRESERV: SAMPLING Fax #: PRESERV: SAMPLING Fax #: PRESERV: SAMPLING Fax #: PRESERV: SAMPLING Fax #: PRESERV: SAMPLING Fax #: PRESERV: SAMPLING PRESERV: SAMPLING Fax #: PRESERV: SAMPLING Fax #: Phone #: 43 - 25 & 45 & 5 So 7 So 7 CHECKED BY: OTHER Result: D Yes AUS F	ANALYSIS Ho Add'I Phone #:	Received By: Sample Conditio	Received/By:	deemed waived unless made in writing and y without limitation, business interruptions, it ardinal, regardless of whether such claim it	any claim aritigor whether based in contract			-	/	1				×	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MATRIX	8		_	EBG		791			
TIME TIME BTEX 8021 B TIME AND A A A A A A A A A A A A A A A A A A	S H TPH 801S M Ves INO Add'I Phone #: ANALYSIS ANALYSIS ANALYSIS	n CHECKED BY: (Initials)		received by Cardinal within 30 days after co oss of use, or loss of profits incurred by clien based upon any of the above stated reason	or had shall be limited to the amount maid be									L X	ACID/BASE: ICE / COOL OTHER :			1000	TK Zip:	Mid	504			P.O. #:	BILL TO
	ANALYSIS ANALYSIS ANALYSIS ANALYSIS Add'l Phone #	RUST	Ē	mpletion of the applicable t, its subsidiaries, ts or otherwise.	5	-								_	BTE	X	<	8	Ui	21	R	2			

Page 150 of 159

**ARDINAL** aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 34 of 37

### City: Project Location: Project Name: Project #: Project Manager: Company Name: Relinquished By: Sampler Name: Phone #: Address: 901 Relinquished By: analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 deys after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of prefits incurred by client. Its subsidiaries, H902415 Sampler - UPS - Bus - Other: LEASE NOTE: Liability and Damages. FOR LAB USE ONLY Delivered By: (Circle One) Lab I.D. liates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise elinquished By: Date: Received By: Phone Res Mid land 432-220-6199 20 0 212 -210-01787 G G 00 5 N Buttom 101 East Marland, Hobbs, NM 88240 Boxtom Siby Buttom Bottom Button (575) 393-2326 FAX (575) 393-2476 Button botton Bottom buttom Not cy Mike ex(w 5 6004 Stephen Cardinal's liability and cill Sample I.D. Vall Hole Holc Itale Hule the Have Hule Hole Itale Hule T ULEMONG ech 0. St S q si tes 5 5 -2 Project Owner: Fax #: ò 2.60 Time: 13:05 Date: State: Time: Date: 7-15-19 NN exclusive remedy for any claim RC YCX 1.5" (BEB) 2.858) 1.5 923) 1.5 Her) 1.5 485 1.5 -5 HEU .5 13E3 lon BEB) BEB 858) × # Zip: 79101 (G)RAB OR (C)OMP. Received By EOG-# CONTAINERS guising GROUNDWATER Sample Condition Cool Intact Yes Yes No No No WASTEWATER MATRIX SOIL < OIL SLUDGE city: Midlar OTHER : Fax #: Phone #: State: 1X Zip: 14706 Address: SS04 Attn: Junes Company: EUG P.O. #: or tort, shall be limited to the amoun ACID/BASE: PRESERV. 10 CHECKED BY: ICE / COOL 4 × BILLETO (Initials) OTHER : 432-258-4546 7 SAMPLING DATE 15/29 Kennedy Unappioni PC paid by the client for the Phone Result: Fax Result: REMARKS: TIME BTEX 802 RUSH!! B ≫ 8015 □ Yes □ No TPH M 4 × Chloride X ANALYSIS Add'l Phone #: Add'l Fax #: REQUEST

Page 151 of 159

aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 35 of 37

# Received by OCD: 5/7/2021 11:17:33 AM



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Location: City: Project Manager: Company Name: PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whethor based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Project Name: Relinquished By: Sampler Name: Project #: Phone #: Address: Sampler - UPS - Bus - Other: LEASE NOTE: Liability and Damages. Cardinal's liability and FOR LAB USE ONLY Delivered By: (Circle One) Lab I.D. 4902 415 Mid land 401 27 22 23 2 432-220-6197 22 212 -10-01787 Sh 22 22 0 Siby Mike NSW-SSW-22m-5 221-19 NSW-EW-ESWlex (w MS M-2 WSW-ESW-2 6004 Stephen Sample I.D. Vall 5 5 F Larmon lech 0. St. tes Project Owner: Fax #: Time: /3.os Date: 7-15-14 State: Time: REYCX NN 2.60 (om × # Zip: 79701 (G)RAB OR (C)OMP. Received By: Received By: EGG # CONTAINERS GROUNDWATER Sample Condition Cool Intact Yes Yes No No No WASTEWATER MATRIX SOIL E OIL SLUDGE State: City: P.O. #: OTHER Phone #: Address: SS04 Attn: Junes Fax #: Company: ACID/BASE: PRESERV. Midlari CHECKED BY: (Initials) di. 5 ICE / COOL 1x Zip: 14706 BILL TO 43 - -258- 4546 rof the above stated reasons or otherwise. Phone Result: Fax Result: REMARKS: OTHER 1000 7 SAMPLING DATE 11/13/14 Kennedy UNAMPIUN TIME Pr RUSH BTEX 802 0 B × 8015 □ Yes TPH M 4 × Chloride × ANALYSIS Add'I Fax #: Add'l Phone #: REQUEST

# Received by OCD: 5/7/2021 11:17:33 AM

# Received by OCD: 5/7/2021 11:17:33 AM

Relinquished By:     Date: Time: V.S.       Relinquished By:     Date: Time: Date:       Delivered By:     Circle One)       Sampler - UPS - Bus - Other:     J.6	Company Name:       Regime Tech         Project Manager:       N: U.e. Curmunu         Address:       901       W. Wall St.         City:       Mid land       State:         Project #:       2120-6197       Fax #:         Project Iname:       Siby1       Hat Feb       Gan #         Project Name:       Siby1       Hat Feb       Gan #         Project Location:       GJJ4       G., M/M         Sampler Name:       Stop1       Hat Feb       Gan #         ILab I.D.       Sample I.D.       Sample I.D.         IH402415       NSW-3       NSW-3         JUSW-3       NSW-3       Sample I.D.         IH402415       NSW-3       Sam Intelliget the only on the same state of the only of the cause whitesoore state is the only on the same state of the only on the only of the only of the cause whitesoore state is the only of the only	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Received By: Received By: Received By: Cool Intact Cool Intact Cool Intact Cool Intact No No No No	Company Name:     Clip:	
Phone Result: <u>Yes No</u> Add'I Phone #: Fax Result: <u>Yes No</u> Add'I Fax #: REMARKS: <i>Qust !!</i>	ANALYSIS REQUEST	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 153 of 159

**ARDINAL** aboratories Page 37 of 37



July 18, 2019

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

RE: SIBYL #1 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 07/17/19 14:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/17/2019	Sampling Date:	07/17/2019
Reported:	07/18/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Jodi Henson
Project Location:	EOG - EDDY CO NM		

# Sample ID: BOTTOM HOLE 6 ( 2.5' BEB ) (H902456-01)

BTEX 8021B	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2019	ND	2.13	107	2.00	2.58	
Toluene*	<0.050	0.050	07/18/2019	ND	2.15	107	2.00	2.89	
Ethylbenzene*	<0.050	0.050	07/18/2019	ND	2.00	100	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/18/2019	ND	6.04	101	6.00	2.80	
Total BTEX	<0.300	0.300	07/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2019	ND	195	97.3	200	0.325	
DRO >C10-C28*	<10.0	10.0	07/18/2019	ND	204	102	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	07/18/2019	ND					
Surrogate: 1-Chlorooctane	118 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	126	37.6-14	7						

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Loadarotaries.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

# **Cardinal Laboratories**

# \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 5/7/2021 11:17:33 AM



Page 157 of 159

aboratories

ARDINAL

Page 4 of 4

Page 6

Incident ID	NAB1915140568
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.

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following it	tems must be included in the closure report.			
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC			
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	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	C District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.			
Printed Name:	Title:			
Signature: Todd Wells	Date:			
email:	Telephone:			
OCD Only				
Received by: Robert Hamlet	Date: <u>8/18/2021</u>			
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: 8/18/2021			
Printed Name: <u>Robert Hamlet</u>				

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	27307
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

	Created By	Condition	Condition Date
ſ	rhamlet	We have received your closure report and final C-141 for Incident #NAB1915140568 SIBYL 1 FEDERAL #001, thank you. This closure is approved.	8/18/2021

Page 159 of 159 CONDITIONS

Action 27307