

April 11, 2017

Mr. Dean Ericson ETC Field Services LLC 600 N. Marienfeld Suite 700 Midland, TX 79701

Dear Mr. Ericson:

Re: Remediation Summary Report Fullerton 16 Inch (1 RP-4499) ETC Field Services LLC 1RP 4499 Site Location: Sec. 35, T 21-S, R 37-E (Lat 32.42832N°, Long -103.1396W°) Lea County, New Mexico Reference No. 11135250-2

**APPROVED** By Olivia Yu at 1:27 pm, May 31, 2017

NMOCD approves the delineation workplan and proposed remediation activities for 1RP-4499 with one condition: modification of depth to groundwater with the inclusion of NMOSE water table documentation.

GHD Services, Inc. (GHD) is pleased to present this report for the above referenced site. The Fullerton 16 Inch (hereafter referred to as the "Site") is located within Section 35, Township 21 South, Range 37 East, in Lea County, New Mexico (see Figure 1).

Assessment and remediation activities were performed at the Site on March 27, 2017 by GHD. On November 2, 2016, a release of approximately 8 barrels (bbls) of natural gas/oil was reported to the State of New Mexico Oil Conservation Division (NMOCD) via Form C-141. A leaking 16-inch pipe was the cause of the release. Approximately 7.5 bbls were recovered utilizing a vacuum truck. Contaminated soils were excavated and stockpiled on site (see Figure 2). NMOCD release number 1RP 4499 was assigned.

#### 1. Introduction

The release at this site occurred on land owned by a private individual. Following the release, GHD's Site assessment activities began with initial background soil sampling and analysis and limited excavation on March 27, 2017. Additional assessment activities were performed by excavating test pits and field screening the soil utilizing the PetroFLAG Hydrocarbon Analysis System. The excavation was extended to a depth of 10 feet bgs, and soil samples were collected from the four walls for laboratory analysis. Excavation activities were performed by Diamondback Disposal Services, Inc. of Hobbs, New Mexico, and observed by GHD. Soil samples were collected by GHD and analyzed by Cardinal Laboratories of Hobbs, New Mexico.

Based on information available from the United States Geologic Survey National Water Information System, the depth to groundwater at the Site is approximately 55 ft below ground surface (bgs). This is based on a water well that is located approximately 1 mile southeast of the Site (see Appendix A, Water





Well Reports for depth to water). Additionally, there are no well head protection areas or surface water bodies within 1000 feet of the Site. Therefore, the preliminary total ranking score is 10 (see table below).

Based on this score, the applicable NMOCD Site Specific Recommended Remediation Action Limits (RRALs) are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), 1,000 mg/kg for total petroleum hydrocarbons (TPH), and 250 mg/kg for chlorides.

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (50-99 ft bgs)	10
Wellhead Protection Area (> 1000 ft from water source, > 200 ft from domestic source)	0
Distance to Surface Body Water (>1000 ft)	0
Ranking Criteria Total Score	10*
*Resource the replying criteria total energy is 20 NMOCD established RDALs are 10 mg/kg	forbonnes

\*Because the ranking criteria total score is 20, NMOCD established RRALs are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 1,000 mg/kg for total TPH and 250 ppm for chlorides<sup>1</sup>.

1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993

#### 2. Assessment Activities

Excavation activities to assess the horizontal and vertical extent of impacted soil from the release occurred on March 27, 2017 by GHD. Field screening of soil for petroleum hydrocarbons was performed to assess the horizontal and vertical extent of contaminated soil. Once field screening indicated soil concentrations were near or below the RRAL, soil samples were collected and submitted to Cardinal Laboratories for laboratory analysis. The soil samples were analyzed for BTEX by EPA Method 8021 and TPH by EPA Method 8015 full range (Table 1). Laboratory analytical data can be found in Appendix B.

The impacted area had been previously excavated to a depth of approximately 6 ft bgs and soil samples were collected by ETC Field Services LLC personnel for laboratory analysis. A sample was collected from the bottom of the excavation at approximately 6 ft bgs on October 31, 2016. Due to heavy rains, contaminated soil from the stockpile ran into the excavation and the soil was removed. Another sample was collected from the bottom of the excavation at 6 ft bgs on December 7, 2016. The samples were submitted to Xenco Laboratories in Midland, Texas for BTEX by EPA Method 8260B, TPH by EPA Method 8015B, and chloride by EPA Method 300. Benzene concentrations ranged from <0.005 to 0.273 mg/kg, total BTEX ranged from 0.0128 to 3.445 mg/kg, TPH ranged from 81.2 to 412.7 mg/kg, and chloride ranged from 12.2 to 13.7 mg/kg (Table 1).

Excavation activities to assess the horizontal and vertical extent of impacted soil from the release occurred on March 27, 2017 by GHD. Field screening of soil for petroleum hydrocarbons was performed to assess the horizontal and vertical extent of contaminated soil. Once field screening indicated soil concentrations were near or below the RRAL within the excavation, soil samples were collected and submitted to Cardinal Laboratories for laboratory analysis. Samples were collected from the base of the



excavation and the four walls. The soil samples were analyzed for BTEX by EPA Method 8021 and TPH by EPA Method 8015 full range (Table 1). Laboratory analytical data can be found in Appendix B.

The final dimensions of the excavation were measured at 14 feet wide by 18 feet long by 10 feet deep.

Only one sample (S-1113520-2-032717-S. Wall) contained a detectable analyte above the laboratory reporting limit. This sample contained a TPH diesel range organics concentration of 11.5 mg/kg which is below the RRAL.

#### 3. Summary and Recommendations

Petroleum hydrocarbon impacted soils, based on field screening, at the Site were encountered at a depth up to 8 ft bgs. Confirmatory soil samples were collected from the base of the excavation, 10 ft bgs, and the four walls (see Figure 2) for laboratory analysis. Based on the laboratory results, GHD recommends the following:

- Backfilling of the excavation with clean fill material and wheel compacting to grade.
- Fertilizing and reseeding of the disturbed area with an appropriate seed mix.

Following completion of the above activities a request for no further action will be made for the Site. Should you have any questions, or require additional information regarding this submittal, please feel free to contact myself or Bernie Bockisch at (505) 884-0672.

Sincerely,

GHD

AIC Brand

Alan Brandon Senior Project Manager

AB/mc/01

Attachments: Figure 1 Figure 2 Table 1 Appendix A Appendix B

Bernard Bockisch New Mexico Operations Manager

# Figures



CAD File: I:\CAD\Files\Eight Digit Job Numbers\1113----\11135250-ETC Field Services\11135250-02(000)GN-DL001.dwg





ETC FIELD SERVICES LEA COUNTY, NEW MEXICO FULLERTON 16"

#### SOIL SAMPLE LOCATION

11135250-02 Apr 7, 2017

#### CAD File: I:\CAD\Files\Eight Digit Job Numbers\1113----\11135250-ETC Field Services\11135250-02(000)GN-DL001.dwg

**FIGURE 2** 

## **Tables**

#### Table 1

#### ETC Field Services LLC - Fullerton 16" Pipeline Section 35, Township 21 South, Range 37 East Lea County, New Mexico Soil Analytical Results Summary

Sample ID	Date	Sample Depth	Chlorides	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	ТРН	ТРН	ТРН	Total TPH
		(ft.)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C-10)	DRO (C10-C28)	EXT DRO (C28- C36)	GRO/DRO
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Rer	nediation Action Level	ls	250	10	NE	NE	NE	50	NE	NE	NE	1,000
			•			EXCAVATION SAMP	LES					
*BtmHole	10/31/2016	6	12.2	< 0.005	< 0.005	< 0.005	0.0128	0.0128	74.7	338	NA	412.7
*WstPile	10/31/2016		71.6	0.0461	0.58	0.333	0.814	1.7731	12,900.0	22,300.0	NA	35,200.0
*BtmH	12/7/2016	6	13.7	0.273	1.4	0.404	1.368	3.445	32.9	48.3	NA	81.2
*WstPil	12/7/2016		166.0	< 0.005	< 0.005	< 0.005	0.026	0.026	2,450.0	11,100.0	NA	13,550.0
S-1113520-2-032717-TP-1 10'	3/27/2017	10	NA	<0.05	<0.05	<0.05	<0.15	<0.30	<10.0	<10.0	<10.0	<30.0
S-1113520-2-032717-N. Wall	3/27/2017	5	NA	<0.05	< 0.05	<0.05	<0.15	<0.30	<10.0	<10.0	<10.0	<30.0
S-1113520-2-032717-S. Wall	3/27/2017	5	NA	<0.05	<0.05	<0.05	<0.15	<0.30	<10.0	11.5	<10.0	11.5
S-1113520-2-032717-E. Wall	3/27/2017	5	NA	<0.05	<0.05	<0.05	<0.15	<0.30	<10.0	<10.0	<10.0	<30.0
S-1113520-2-032717-W. Wall	3/27/2017	5	NA	<0.05	<0.05	<0.05	<0.15	<0.30	<10.0	<10.0	<10.0	<30.0

Note: Concentrations that are bold exceed the NMOCD Remediation Action Level \* Samples taken by ETC Field Services NE = Not Established mg/Kg = milligrams per Kilogram - Not Applicable NA = Not Analyzed



# Appendix A Water Well Reports





National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

 Data Category:
 Geographic Area:

 Groundwater
 V
 United States
 GO

Click to hideNews Bulletins

<u>Please see news on new formats</u>

• <u>Full News</u> 🖾

Groundwater levels for the Nation

#### Search Results -- 1 sites found

Agency code = usgs

site\_no list = • 322521103073601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 322521103073601 22S.37E.02.222314

Lea County, New Mexico Latitude 32°25'21", Longitude 103°07'36" NAD27 Land-surface elevation 3,356 feet above NAVD88 The depth of the well is 87 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer. Output formats

 Table of data

 Tab-separated data

 Graph of data

 Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1965-11-18	l .	D	63,82			2		U		<ul> <li>Contracting the second s</li></ul>
1986-02 <b>-</b> 26	;	D	55.12			2		U		

Explanation									
Section	Code	Description							
Water-level date-time accuracy	D	Date is accurate to the Day							
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot							
Status		The reported water-level measurement represents a static level							
Method of measurement	U	Unknown							
Measuring agency		Not determine <b>d</b>							
Source of measurement	U	Source Is unknown.							
Water-level approval status	А	Approved for publication Processing and review completed.							

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

Accessibility Plug-Ins FOIA Privacy Policies and Notices <u>U.S. Department of the Interior | U.S. Geological Survey</u> Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

,

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2017-03-06 18:02:17 EST 0.5 0.4 nadww01 USA.gov

# Appendix B Certified Laboratory Reports



April 04, 2017

BERNARD BUCKISCH GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE, NM 87110

**RE: FULLERTON 16"** 

Enclosed are the results of analyses for samples received by the laboratory on 03/29/17 14:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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



GHD SERVICES, INC. BERNARD BUCKISCH 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	03/29/2017	Sampling Date:	03/27/2017
Reported:	04/04/2017	Sampling Type:	Soil
Project Name:	FULLERTON 16"	Sampling Condition:	Cool & Intact
Project Number:	1113520-2	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: S-1113520-2-032717-TT-1-10 (H700825-01)

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	03/31/2017	ND	1.97	98.4	2.00	4.94	
Toluene*	<0.050	0.050	03/31/2017	ND	1.82	91.1	2.00	5.44	
Ethylbenzene*	<0.050	0.050	03/31/2017	ND	1.80	89.8	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/31/2017	ND	5.13	85.5	6.00	5.90	
Total BTEX	<0.300	0.300	03/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1 %	% 72-148							
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	03/29/2017	ND	222	111	200	0.749	
				ND	222	111	200	1.25	
DRO >C10-C28	<10.0	10.0	03/29/2017	ND	223	111	200	1.25	
EXT DRO >C28-C36	<10.0 <10.0	10.0 10.0	03/29/2017 03/29/2017	ND	223	111	200	1.25	
		10.0	03/29/2017						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. BERNARD BUCKISCH 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	03/29/2017	Sampling Date:	03/27/2017
Reported:	04/04/2017	Sampling Type:	Soil
Project Name:	FULLERTON 16"	Sampling Condition:	Cool & Intact
Project Number:	1113520-2	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: S-1113520-2-032717- N. WALL (H700825-02)

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	03/31/2017	ND	1.97	98.4	2.00	4.94	
Toluene*	<0.050	0.050	03/31/2017	ND	1.82	91.1	2.00	5.44	
Ethylbenzene*	<0.050	0.050	03/31/2017	ND	1.80	89.8	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/31/2017	ND	5.13	85.5	6.00	5.90	
Total BTEX	<0.300	0.300	03/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8 9	% 72-148	2						
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	03/29/2017	ND	222	111	200	0.749	
DRO >C10-C28	<10.0	10.0	03/29/2017	ND	223	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/29/2017	ND					
Surrogate: 1-Chlorooctane	94.6 \$	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	103 9	26.8-17							

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. BERNARD BUCKISCH 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	03/29/2017	Sampling Date:	03/27/2017
Reported:	04/04/2017	Sampling Type:	Soil
Project Name:	FULLERTON 16"	Sampling Condition:	Cool & Intact
Project Number:	1113520-2	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: S-1113520-2-032717- S. WALL (H700825-03)

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	03/31/2017	ND	1.97	98.4	2.00	4.94	
Toluene*	<0.050	0.050	03/31/2017	ND	1.82	91.1	2.00	5.44	
Ethylbenzene*	<0.050	0.050	03/31/2017	ND	1.80	89.8	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/31/2017	ND	5.13	85.5	6.00	5.90	
Total BTEX	<0.300	0.300	03/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6 9	% 72-148	}						
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	03/29/2017	ND	222	111	200	0.749	
DRO >C10-C28	11.5	10.0	03/29/2017	ND	223	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/29/2017	ND					
Surrogate: 1-Chlorooctane	103 %	% 25.1-15	8						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. BERNARD BUCKISCH 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	03/29/2017	Sampling Date:	03/27/2017
Reported:	04/04/2017	Sampling Type:	Soil
Project Name:	FULLERTON 16"	Sampling Condition:	Cool & Intact
Project Number:	1113520-2	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: S-1113520-2-032717- E.WALL (H700825-04)

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	03/31/2017	ND	1.97	98.4	2.00	4.94	
Toluene*	<0.050	0.050	03/31/2017	ND	1.82	91.1	2.00	5.44	
Ethylbenzene*	<0.050	0.050	03/31/2017	ND	1.80	89.8	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/31/2017	ND	5.13	85.5	6.00	5.90	
Total BTEX	<0.300	0.300	03/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6 9	% 72-148	}						
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	03/29/2017	ND	222	111	200	0.749	
DRO >C10-C28	<10.0	10.0	03/29/2017	ND	223	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/29/2017	ND					
Surrogate: 1-Chlorooctane	103 9	6 25.1-15	8						
	105 /	0 25.1 15	0						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. BERNARD BUCKISCH 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	03/29/2017	Sampling Date:	03/27/2017
Reported:	04/04/2017	Sampling Type:	Soil
Project Name:	FULLERTON 16"	Sampling Condition:	Cool & Intact
Project Number:	1113520-2	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: S-1113520-2-032717- W. WALL (H700825-05)

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	03/31/2017	ND	1.97	98.4	2.00	4.94	
Toluene*	<0.050	0.050	03/31/2017	ND	1.82	91.1	2.00	5.44	
Ethylbenzene*	<0.050	0.050	03/31/2017	ND	1.80	89.8	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/31/2017	ND	5.13	85.5	6.00	5.90	
Total BTEX	<0.300	0.300	03/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9 9	% 72-148							
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	03/29/2017	ND	222	111	200	0.749	
DRO >C10-C28	<10.0	10.0	03/29/2017	ND	223	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/29/2017	ND					
Surrogate: 1-Chlorooctane	88.4	25.1-15	8						
Surrogate: 1-Chlorooctadecane	93.9 9	26.8-17	0						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

102

	101 East Marland, Hobbs, NM 882																					
Company Name	(575) 393-2326 FAX (575) 393-247 : GHD Services Inc	6	-	-		-	T		R	ILL TO		-	-		٨	NALY	212	REC		T	 	
Project Manage	" Bernard Bockisch		-				P.	0. #:	-	10		1	1		Ť		515	NEC	QUE	51		
Address: (1)	1) Indian School, Rd, 1	54	1.0	5	F 21	17	-		mur.	ETC		1										
City: Alla	guergue State: NM	71		67	LIID	N				in Ent	0.02											
Phone #: CAS	- 884 - 0672 Fax#:	24		0 (	110	-		idres			50		5				- 1				- 1	
			-						5.				5	1 1								
Project #: [[]	3520-Z Project Owner Fullertun 16"	r:				-	Ci	-	_	-												
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Project Locatio							1	one	#:			802	$\ge$		- 1							
FOR LAB USE ONLY	Alan Brandon	-	-	-	MATE	VIV	Fa	X #:	CEDI	SAMPL	INC	- 10	SUK	1 1				- 1				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER	DATE	TIME	BTEX	Idd	-								
01	S-1113520-2-032717-TP-1	16	1		X					3/27/12			X									
02	S-1113520-2-032717. N JAII	6	1		X	_			-	327/17	1545	X	X		_							-
03	3-11155-20-2-032717-S.woll	G	L		X	-			_	32717			X		_	-	_					_
04	5-11135-20-2-032717-E. Wall	6	11		X	_	-		-	3/27/17			X		_	-	_	_				
05	S-1113520-2-032717-Will	6	1		X	-			-	3/27/17	1535	X	X		-	-	-					

analyses. All claims including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Carolinal writin 30 days after completion of the applicable

service. In no event shall Cardinal be liable for incidental or consequential damages, including without firmtation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regargless of whother such calm is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 9/17 Received By:	Phone Result:  Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #: REMARKS:
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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Johnnie Bradford Eunice NM

Project Location:

Contact:

# Certificate of Analysis Summary 541732 Energy Transfer-Midland, Midland, TX Project Name: Fullerton 16" Conf



Date Received in Lab: Thu Dec-08-16 03:43 pm Project Manager: Kelsey Brooks Report Date: 16-DEC-16

	Lab Id:	541732-001	541732-002
Audicie Doguociad	Field Id:	WstPil	BtmH
naicanhaut ciclimiter	Depth:		6 ft
	Matrix:	SOIL	SOIL
	Sampled:	Dec-07-16 09:45	Dec-07-16 10:01
TCLP BTEX by SW 8260B	Extracted:	Dec-14-16 17:00	Dec-14-16 17:00
SUB: TX104704215	Analyzed:	Dec-14-16 18:41	Dec-14-16 18:59
	Units/RL:	mg/L RL	mg/L RL
Benzene		ND 0.00500	0.273 0.00500
Toluene		ND 0.00500	1.40 0.00500
Ethylbenzene		ND 0.00500	0.404 0.00500
m.p-Xylenes		0.0119 0.0100	0.926 0.0100
o-Xylene		0.0137 0.00500	0.442 0.00500
TCLP Mercury by SW 7470A	Extracted:	Dec-14-16 11:30	Dec-14-16 11:30
SUB: TX104704215	Analyzed:	Dec-14-16 18:08	Dec-14-16 18:10
	Units/RL:	mg/L RL	mg/L RL
Mercury		ND 0.000200	ND 0.000200
TCLP Metals by SW846 6010B	Extracted:	Dec-15-16 09:30	Dec-15-16 09:30
SUB: TX104704215	Analyzed:	Dec-15-16 16:48	Dec-15-16 16:51
	Units/RL:	mg/L RL	mg/L RL
Arsenic		ND 0.0500	ND 0.0500
Barium		1.02 0.0500	0.893 0.0500
Cadmium		ND 0.0250	ND 0.0250
Chromium		ND 0.0500	ND 0.0500
Lead		ND 0.0500	ND 0.0500
Selenium		ND 0.100	ND 0.100
Silver		ND 0.100	ND 0,100

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

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Julian Martinez Project Manager

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Johnnie Bradford Eunice NM

Project Location:

Contact:

# Certificate of Analysis Summary 541732 Energy Transfer-Midland, Midland, TX Project Name: Fullerton 16" Conf



Date Received in Lab: Thu Dec-08-16 03:43 pm Report Date: 16-DEC-16 Project Manager: Kelsey Brooks

	Lab Id:	541732-001	541732-002	
Auntucic Dogugotod	Field Id:	WstPil	BtmH	
naisanhay sistimut	Depth:		6- ft	
	Matrix:	SOIL	SOIL	
	Sampled:	Dec-07-16 09:45	Dec-07-16 10:01	
Inorganic Anions by EPA 300/300.1	Extracted:	Dec-13-16 14:18	Dec-13-16 14:18	
	Analyzed:	Dec-13-16 20:00	Dec-13-16 20:07	
	Units/RL:	mg/kg RL	mg/kg RL	
Chloride		166 5,00	13.7 5.00	
TPH by SW 8015B	Extracted:	Dec-09-16 14:00	Dec-09-16 14:00	
	Analyzed:	Dec-10-16 07:26	Dec-10-16 07:50	
	Units/RL:	mg/kg RL	mg/kg RL	
C6-C10 Gasoline Range Hydrocarbons		2450 150	32.9 15.0	
C10-C28 Diesel Range Hydrocarbons		11100 150	48.3 15.0	
Total TPH		13800 150	81.2 15.0	

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Julian Martinez Project Manager

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Setting the Standard since 1990 Stafford,Texas (281-240-4200)

CHAIN OF CUSTODY San Antonio, Texas (210-509-3334)

	0-355-0900)	Xenco Job # C 2 C 1	acq-oc	Analytical Information Matrix Codes		VV = VVater S = Soil/Sed/Solid	GW =Ground Water	P = Product	SW = Surface water	OW =Orean/Sea Water	WI = Wipe	W= Waste Waste Water										Notes:					FED-EX / UPS: Tracking #	Received By:	× ~ ~		licable On Ice Cooler Temp. Thermo. Corr. Factor
	Proenix, Arizona (480-355-0900)	Xenco Quote #		Analytic					s	letal	M 8	AAC	)A 9		X X X	-						ata)						RY Date Time:	i		Preserved where applicable
	L	Xe					•		••	•		Number of preserved bottles		LCT NONE WEOH N <sup>9</sup> HRC N <sup>9</sup> HRC HSCO HNCO3							ton the first strategy of the first strategy	Level IV (Full Data Pkg fraw data)	TRRP Level IV	UST/RG-411			E SAMPLES CHANGE POSSESSION INCLUDING COLIMICS	Relinquished By:	11/2/11/6 15(0)		Custody Seal #
San Antonio, Texas (210-509-3334)	(432-704-5251)	www.xenco.com		Project Information	91:									Matrix bo	07 S 1						Data Deliverable Information	Level II Std QC	Level III Std QC+ Forms	Level 3 (CLP Forms)	TRRP Checklist		EACH TIM	JABY!	Sived By:	3 Received Bu	
San Antonio, Te	Midland, Texas (432-704-5251)				Project Name/Number: Fullerton 16"	Project Location:	Eunice NM	Invoice To:	Same as above		PO Number: None	Collection		Date	o 10/31/2016 0907	10/31/2016 091				 			×				E DOCUMENTED BELOW	E OF CA Rece	¥2		in in
								Phone No:	(432) 450-5542				on Samule	Depth		<u>ته</u>						X 5 Day TAT	]7 Day TAT	Contract TAT		sceived by 5:00 pm	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW	Date Time:	Date Time	Date Time:	-
setting the standard since 1990 Stafford,Texas (281-240-4200)	Dallas Texas (214-902-0300)			Client / Reporting Information	company Name / Branch: Ertergy Transfer Company Field Services	Company Address:	600 N. Marienfetd, Midland, Texas 79701	Email:	johnnie.bradford@energytransfer.com	Project Contact: Johnnie Bradford	viers's Name - Johnnie Bradford		No. Field ID / Point of Collection	WstPile		BtmHole					Turnaround Time ( Business days)	Same Day TAT X	Next Day EMERGENCY	2 Day EMERGENCY	3 Day EMERGENCY	TAT Starts Day received by Lab, if received by 5:00 pm		Kelingyished by Sampler: Alerature Burgara		Relinquished by:	5 Custody Seal # Preserved where applicable On Ice



# Date Received in Lab: Tue Nov-01-16 09:56 am Certificate of Analysis Summary 539556 Energy Transfer- Midland, Midland, TX Project Name: Fullerton 16"



Report Date: 07-NOV-16

				Project Manager: Kelsey Brooks
	Lab Id:	539556-001	539556-002	
Audicie Donuced	Field Id:	WstPile	BtmHole	
naisanhay sistemur	Depth:		-6 ft	
	Matrix:	SOIL	SOIL	
	Sampled:	Oct-31-16 09:07	Oct-31-16 09:15	
TCLP BTEX by SW 8260B	Extracted:	Nov-03-16 13:02	Nov-03-16 16:00	
SUB: TX104704215	Analyzed:	Nov-03-16 14:11	Nov-03-16 17:21	
	Units/RL:	mg/L RL	mg/L RL	
Benzene		0.0461 0.00500	ND 0.00500	
Toluene		0.580 0.00500	ND 0.00500	
Ethylbenzene		0.333 0.00500	ND 0.00500	
m.p-Xylenes		0.539 0.0100	0.0128 0.0100	
o-Xylene		0.275 0.00500	ND 0.00500	
TCLP Mercury by SW 7470A	Extracted:	Nov-04-16 09:00	Nov-04-16 09:00	
SUB: TX104704215	Analyzed:	Nov-04-16 17:45	Nov-04-16 17:47	
	Units/RL:	mg/L RL	mg/L RL	
Mercury		ND 0.000200	ND 0.000200	
TCLP Metals by SW846 6010B	Extracted:	Nov-04-16 09:30	Nov-04-16 09:30	
SUB: TX104704215	Analyzed:	Nov-04-16 16:30	Nov-04-16 16:33	
	Units/RL:	mg/L RL	mg/L RL	
Arsenic		ND 0.0500	ND 0.0500	
Barium		0.904 0.0500	1.21 0.0500	
Cadmium		ND 0.0250	ND 0.0250	
Chromium		ND 0.0500	ND 0.0500	
Lead		ND 0.0500	ND 0.0500	
Selenium		ND 0.100	001.0 UN	
Silver		ND 0.100	ND 0.100	

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Kelsey Brooks Project Manager

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Eunice NM

Project Location:

# Certificate of Analysis Summary 539556 Energy Transfer-Midland, Midland, TX Project Name: Fullerton 16"



Date Received in Lab: Tue Nov-01-16 09:56 am Report Date: 07-NOV-16 Project Manager: Kelsey Brooks

	Lab Id:	539556-001	539556-002	
Distance of the second s	Field Id:	WstPile	BtmHole	
naisanhay sistinuy	Depth:		6 ft	
	Matrix:	SOIL	SOIL	
	Sampled:	Oct-31-16 09:07	Oct-31-16 09:15	
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-04-16 17:04	Nov-04-16 17:04	
	Analyzed:	Nov-04-16 19:23	Nov-04-16 19:44	
	Units/RL:	mg/kg RL	mg/kg	
Chloride		71.6 5.00	12.2 5.00	
TPH by SW 8015B	Extracted:	Nov-02-16 11:00	Z	
	Analyzed:	Nov-02-16 20:56	Nov-02-16 21:21	
	Units/RL:	mg/kg RL	mg/kg RL	
C6-C10 Gasoline Range Hydrocarbons		12900 150	74.7 15.0	
C10-C28 Diesel Range Hydrocarbons		22300 150	338 15.0	
Total TPH		35200 150	413 15.0	

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hurd Moan Kelsey Brooks Project Manager

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### **Flagging Criteria**



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. D Dilution factors are included in the final results. The result is from a diluted sample.
- The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- RPD exceeded lab control limits. F
- 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 Limit SDL Sample Detection Limit
- LOD Limit of Detection LOQ Limit of Quantitation
- MQL Method Quantitation Limit POL Practical Quantitation Limit
- **DL** Method Detection Limit
- NC Non-Calculable
- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	10.1210.000

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