

3300 North A Street, Building 1, #103 Midland, Texas 79705 T 432.704.5178 / F 432.704.5179



April 5, 2018

Ms. Crystal Weaver New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request Remuda Basin 31 State COM #001 Well Pad 2RP-2988 Eddy County, New Mexico

Dear Ms. Weaver:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO) is pleased to present the following letter report detailing the soil sampling activities at the Remuda Basin 31 State COM #001 well pad (Site) in Section 31, Township 23 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the investigation was to assess impacts to soil after an acid and swap job caused the well to start flowing water, which overfilled the produced water tank. This caused a release of approximately 13 barrels (bbls) of produced water on April 29, 2015. The spill impacted approximately 650 square feet of the earthen containment around the oil and water production tanks. Free-standing liquid was removed with a vacuum truck; approximately 3 bbls of produced water was recovered. The release was reported to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on May 1, 2015, and was assigned Remediation Permit Number (RP) 2RP-2988 (Attachment 1). Although the impact occurred while the well was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved. The sampling was conducted to investigate potential residual impact to soil. Based on the results of the sampling event as described herein, XTO is requesting no further action for this release.

BACKGROUND

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well is C 02095, located approximately 3.27 miles southeast of the Site, with a depth to groundwater of 440 feet bgs and a total depth of 554 feet bgs. The closest surface water to the Site is a lake located approximately 3.45 miles northwest of the Site. Based on these criteria, the NMOCD site ranking for remediation action levels is 0, and the following remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region, LTE proposes a site-specific chloride action level of 600 mg/kg or within a range (plus or minus 10 percent [%]) of the background concentrations.





Page 2 of 33

Weaver, C. Page 2

SOIL SAMPLING

Soil sample locations were based on visual inspection of the Site and the Form C-141 information. Based on the latitude and longitude provided for the flowline release location, description of the affected area, and photographs made immediately following the release, LTE determined the release occurred inside the earthen berm. LTE collected one soil sample from five locations on February 26, 2018, as depicted on Figure 2.

To eliminate effects from weathering and natural degradation of contaminants at the ground surface, subsurface samples were collected from each location at roughly 0.5 feet bgs by hand auger. The soil samples were collected directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis and immediately placed on ice. The samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of BTEX by United States Environmental Protection Agency (USEPA) 8021B, TPH-gasoline range organics (GRO), diesel range organics (DRO), and motor range organics (MRO) by USEPA Method 8015M, and chloride by 300.0.

ANALYTICAL RESULTS

Laboratory analytical results for the five soil samples indicated BTEX concentrations were below laboratory reporting limits. Laboratory analytical results for TPH indicated no detected concentrations exceeded the NMOCD remediation action levels for the Site with values ranging from below the laboratory reporting limits (SS02, SS03, SS04, and SS05) to 611 mg/kg in soil sample SS01. Chloride concentrations ranged from below the laboratory reporting limit in soil samples SS2, SS4, and SS5 to 154 mg/kg in soil sample SS03. Laboratory analytical results are presented on Figure 2 and in Table 1, and the complete laboratory analytical report is included as Attachment 2.

CONCLUSIONS

Laboratory analytical results of soil samples collected within the former release footprint indicate impact to soil, as defined by concentrations of BTEX, TPH, and chloride, do not exceed NMOCD site-specific standards. Initial response efforts and natural degradation have remediated this release and XTO requests no further action at this Site.



Received by OCD: 3/17/2023 8:00:04 AM



Weaver, C. Page 3

If you have any questions or comments, do not hesitate to contact Adrian Baker at (432) 887-1255 or <u>abaker@ltenv.com</u>.

Sincerely,

LT ENVIRONMENTAL, INC.

Adrian Baker Project Geologist

Ashley L. ager

Ashley L. Ager, P.G. Senior Geologist

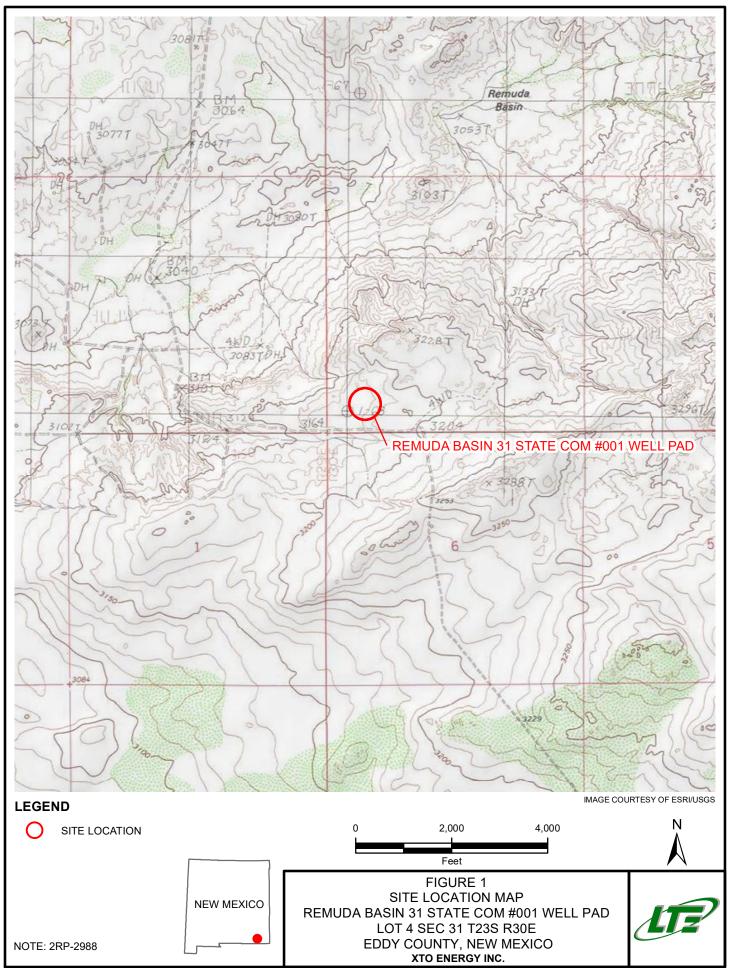
Attachments:Figure 1Site Location MapFigure 2Soil Sample LocationsTable 1Soil Analytical ResultsAttachment 1Initial/Final NMOCD Form C-141Attachment 2Laboratory Analytical Report

cc: Kyle Littrell, XTO Mike Bratcher, NMOCD Ryan Mann, State Land Office Tammy Honea, State Land Office Mark Naranjo, State Land Office



FIGURES





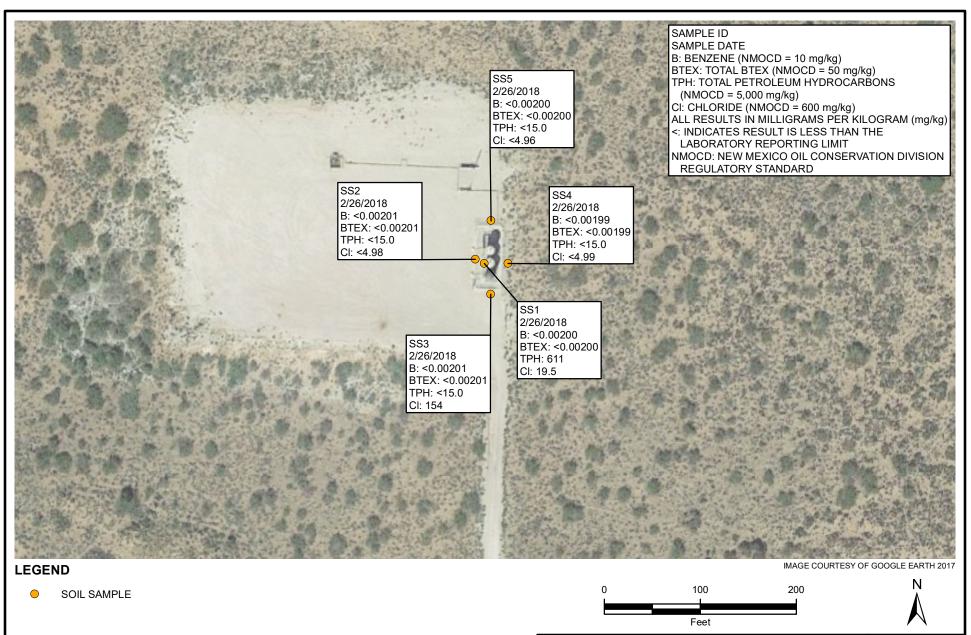


FIGURE 2 SOIL SAMPLE LOCATIONS REMUDA BASIN 31 STATE COM #001 WELL PAD LOT 4 SEC 31 T23S R30E EDDY COUNTY, NEW MEXICO XTO ENERGY INC.

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NOTE: 2RP-2988

P:\XTO Energy\GIS\MXD\012918057_REMUDA BASIN 31 STATE COM #001\012918057_FIG02_SITE_2018.mxd

TABLE



TABLE 1 SOIL ANALYTICAL RESULTS REMUDA BASIN 31 STATE COM #001 WELL PAD 2RP-2988 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS1	0.5	2/26/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<14.9	611	<14.9	611	19.5
SS2	0.5	2/26/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	<4.98
SS3	0.5	2/26/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	154
SS4	0.5	2/26/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	<4.99
SS5	0.5	2/26/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	<4.96
NMOCD Regulat	ory Standard	NE	10	NE	NE	NE	50	NE	NE	NE	5,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NMOCD - New Mexico Oil Conservation Division

NE - Not established

TPH - total petroleum hydrocarbons



ATTACHMENT 1 INITIAL/FINAL NMOCD

FORM C-141



Received by	<i>v OCD</i> :	3/17/2023	8:00:04 AM
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State of New Mexico Energy Minerals and Natural Resources

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

NM OIL CONSERVATION

ARTESIA DISTRICT Form C-141 Revised August 8, 2011

Page 10 of 33

MAY 0 1 2015 Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

MAB ISI2 558 249 OPERATOR Initial Report Final Name of Company: BOPCO, L.P. Contact: Tony Savoie Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 575-887-7329 Facility Name: Remuda Basin 31 State COM #001 Facility Type: Exploration and Production Surface Owner: State of NM Mineral Owner: State of NM API No. 30-015-31774 LOCATION OF RELEASE County County County M 31 235 30E Feet from the North/South Line Feet from the East/West Line County County M 31 235 30E Feet from the South Feet from the County County M 31 235 30E Feet from the South Feet from the Got West County M 31 235 30E Feet from the South Noth/South Line Feet from the Got County County <t< th=""></t<>
Name of Company: BOPCO, L.P. JUD 7.37 Contact: Tony Savoie Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 575-887-7329 Facility Name: Remuda Basin 31 State COM #001 Facility Type: Exploration and Production Surface Owner: State of NM Mineral Owner: State of NM API No. 30-015-31774 LOCATION OF RELEASE LocATION OF RELEASE County Eddy Unit Letter Section Township Range Feet from the South Feet from the East/West Line County M 31 235 30E Feet from the North/South Line Feet from the East/West Line County M 31 235 30E Feet from the North/South Line Feet from the East/West Line County Main 2015 Source of Release: Produced water Volume of Release: 1 bbls. Volume Recovered: 3 bbls. Source of Release: Produced water Unit Narkown approximately 1.00 p.m. If YES, To Whom? Was Immediate Notice Given? Yes No Not Required Date and Hour Bate and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. By Whom? Yes
Facility Name: Remuda Basin 31 State COM #001 Facility Type: Exploration and Production Surface Owner: State of NM Mineral Owner: State of NM API No. 30-015-31774 LOCATION OF RELEASE LOCATION OF RELEASE Unit Letter Section Township Range Feet from the 660 Feet from the 660 East/West Line County M 31 23S 30E Feet from the 660 North/South Line Feet from the 660 West Eddy Latitude N 32.255437° Longitude W 103.926920° NATURE OF RELEASE Volume Recovered: 3 bbls. Volume concurrence: Date and Hour of Discovery: 4/29/4/29/15 time unknown Date and Hour of Discovery: 4/29/4/29/15 time unknown approximately 1:00 p.m. If YES, To Whom? Was Immediate Notice Given? If YES, To Whom? Date and Hour If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? Yes IN NO If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the watercourse. If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The well had a recent acid and swab job. The well started flowing water and ran the PW tank over. A transport was called out to empty the water tank standby until the well quit flowing water. Describe Area Affected and Cleanup Ac
Surface Owner: State of NM API No. 30-015-31774 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the 660 North/South Line Feet from the 660 County Latitude N 32_255437° Longitude W 103.926920° NATURE OF RELEASE Type of Release: Produced water Volume of Release: 13 bbls. Volume Recovered: 3 bbls. Source of Release: Produced water Volume of Release: 13 bbls. Volume Recovered: 3 bbls. Source of Release: PW tank Date and Hour of Occurrence: Date and Hour of Discovery: 4/29/ 4/29/15 time unknown Date and Hour of Discovery: 4/29/ 4/29/15 time unknown Was Immediate Notice Given? If YES, To Whorn? Date and Hour If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? Yes IN0 If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* The well had a recent acid and swab job. The well started flowing water and ran the PW tank over. A transport was called out to empty the water tank standby until the well quit flowing water. Describe Area Affected and Cleanup Action Taken.* The spill area will be cleaned up in accordance to the spill area on 4/30/15 with a hydro-vae and removed approximately 14 cubic yards of satua
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should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human heat or the environment. In addition, NMOCD 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.
OIL CONSERVATION DIVISION
Signature: 1 on Dance 11
Printed Name: Tony Savoie Approved by Environmental Specialist:
Title: Waste Management and Remediation Specialist Approval Date: 5/5/15 Expiration Date: NIA
E-mail Address: tasavoie@basspet.com Conditions of Approval:
Somediation per O.C.D. Rules & Guidelines
Date: Phone: 432-556-8730 SUBMIT REMEDIATION PROPOSAL NO
Attach Additional Sheets If Necessary ATER THAN:

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action											
						OPERAT			Initia	l Report 🛛 Final Report	
Name of Co	mpany X	FO Energy				Contact Kyle Littrell Telephone No. 432-221-7331					
Address 5104 D Greene Saleen, Carlosand,					1	elephone N	e Exploration a	nd Product	ion		
Facility Name Remuda Basin 31 State COM #001							e Exploration a				
Surface Ow	ner State o	of NM		Mineral O	wner St	ate of NM		A	API No	. 30-015-31774	
				LOCA	TION	OF REI	LEASE				
Unit Letter M	Section 31	Township 23S	Range 30E	Feet from the 660		Journe			t Line t	County Eddy	
Latitude <u>N 32.255437°</u> Longitude <u>W 103.926920°</u> NATURE OF RELEASE											
		1		NAT	URE		Release 13 bbls	V	olume 3	3 bbls	
Type of Rele	ease Prod	uced water				Volume of	Teleder to com			1/20/15	
Source of Re	elease a 2/	8" flow line	Lee.				lour of Occurrenc ime unknown	ce Da	ate and proxim	Hour of Discovery : 4/29/15 at ately I:00 a.m.	
Was Immediate Notice Given?					If YES, To	Whom?					
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By Whom? Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse.						
		C	Yes 🛛	🛾 No		24					
If a Waterco	ourse was Ir	npacted, Desc	ribe Fully	*							
Describe Cause of Problem and Remedial Action Taken.* The well had a recent acid and swab job. The well started flowing water and ran the PW tank over. A transport was called out to empty the water tank and standby until the well quit flowing water.								asport was called out to			
The spill i free-stand and remov	mpacted a ing fluid v ved at leas	was recover at 14 cubic y	ely 650 so ed with a vards of s	I.ft. of the earth vacuum truck. aturated soil.	EPI res	ponded to	the spin area of	14/30/15	and Di	on tanks. All of the 1/15 with a hydro-vac	
XTO colle	cted five s	soil samples	within the	e release footprin	nt on Fe	bruary 26,	2018. Laborator	y analytica	al resul	ts from soil samples indicate	
concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation standards. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other C due to the environment.							rsuant to NMOCD rules and cleases which may endanger clieve the operator of liability er, surface water, human health compliance with any other				
21 A							OIL CON	NSERVA	TION	N DIVISION	
Signature? Settle					Approved by Environmental Specialist: Futtan Hall						
Printed Na	me: Kele L	ittrell							-		
Title: SH&	E Coordina	ntor				Approval E	ate: 3/17/202	23 Ех	xpiratio	n Date: N/A	
		Littrell@xtoe	energy.com	1		Conditions	of Approval:			Attached	
Date: 4/3/2018 Phone: 432-221-7331 N/A											

* Attach Additional Sheets If Necessary

ATTACHMENT 2

LABORATORY ANALYTICAL REPORT



Analytical Report 577905

for LT Environmental, Inc.

Project Manager: Adrian Baker

Remuda Basin State Com #001

30-015-31774

08-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176)





08-MAR-18

Project Manager: Adrian Baker LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): **577905 Remuda Basin State Com #001** Project Address: NM

Adrian Baker:

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) 577905. 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. 577905 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 Vramer

Jessica Kramer Project Assistant

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Page 14 of 33

Page 2 of 20

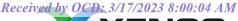


Sample Cross Reference 577905



LT Environmental, Inc., Arvada, CO

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS1	S	02-26-18 14:10	6 In	577905-001
SS2	S	02-26-18 14:13	6 In	577905-002
SS3	S	02-26-18 14:16	6 In	577905-003
SS4	S	02-26-18 14:18	6 In	577905-004
SS5	S	02-26-18 14:21	6 In	577905-005





CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Remuda Basin State Com #001

 Project ID:
 30-015-31774

 Work Order Number(s):
 577905

Report Date:08-MAR-18Date Received:03/01/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

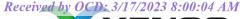
None

Analytical non conformances and comments: Batch: LBA-3042731 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3043092 Inorganic Anions by EPA 300

Lab Sample ID 577905-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 577905-001, -002, -003, -004, -005.

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





Project Id:30-015-31774Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 577905

LT Environmental, Inc., Arvada, CO Project Name: Remuda Basin State Com #001



Date Received in Lab:Thu Mar-01-18 01:10 pmReport Date:08-MAR-18Project Manager:Jessica Kramer

	Lab Id:	577905-0	001	577905-0	002	577905-0	003	577905-	004	577905-0	005	
Analysis Requested	Field Id:	SS1		SS2		SS3		SS4		SS5		
Anulysis Requested	Depth:	6- In	6- In			6- In		6- In		6- In		
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		
	Sampled:	Feb-26-18	14:10	Feb-26-18	14:13	Feb-26-18	14:16	Feb-26-18	14:18	Feb-26-18	14:21	
BTEX by EPA 8021B	Extracted:	Mar-04-18	10:00									
	Analyzed:	Mar-05-18	10:44									
	Units/RL:	mg/kg	RL									
Benzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201	<0.00199	0.00199	< 0.00200	0.00200	
Toluene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
m,p-Xylenes		< 0.00399	0.00399	< 0.00402	0.00402	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00399	0.00399	
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	
Inorganic Anions by EPA 300	Extracted:	Mar-07-18	10:13									
	Analyzed:	Mar-07-18	12:04	Mar-07-18	12:09	Mar-07-18	12:14	Mar-07-18	12:30	Mar-07-18	12:35	
	Units/RL:	mg/kg	RL									
Chloride		19.5	4.96	<4.98	4.98	154	4.95	<4.99	4.99	<4.96	4.96	
TPH by SW8015 Mod	Extracted:	Mar-05-18	07:00									
	Analyzed:	Mar-05-18	17:40	Mar-05-18	18:05	Mar-05-18	18:31	Mar-05-18	18:57	Mar-05-18	19:22	
	Units/RL:	mg/kg	RL									
Gasoline Range Hydrocarbons (GRO)		<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Diesel Range Organics (DRO)		611	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Oil Range Hydrocarbons (ORO)		<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Total TPH		611	14.9	<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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

fession kenner

Jessica Kramer Project Assistant

Page 5 of 20





LT Environmental, Inc., Arvada, CO

Sample Id: SS1 Lab Sample Id: 577905-001	Matrix: Date Colle	Soil ected: 02.26.18 14.10	_	Date Received:03.0 Sample Depth:6 In		
Analytical Method: Inorganic Anions by EPA	300		F	Prep Method: E30	0P	
Tech: OJS			9	6 Moisture:		
Analyst: OJS	Date Prepa	03.07.18 10.13	E	Basis: Wet	Weight	
Seq Number: 3043092						
Parameter Cas Nu	mber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-0	0-6 19.5	4.96	mg/kg	03.07.18 12.04		1

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3042902	5 Mod	Date Pre	p: 03.05	.18 07.00	9	Prep Method: TX 6 Moisture: Basis: We	1005P et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.05.18 17.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	611	14.9		mg/kg	03.05.18 17.40		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	03.05.18 17.40	U	1
Total TPH	PHC635	611	14.9		mg/kg	03.05.18 17.40		1
Surrogate 1-Chlorooctane		Cas Number 111-85-3	% Recovery 106	Units %	Limits 70-135	Analysis Date 03.05.18 17.40	Flag	
o-Terphenyl		84-15-1	107	%	70-135	03.05.18 17.40		





LT Environmental, Inc., Arvada, CO

Sample Id: SS1	Matrix: Soil	Date Received:03.01.18 13.10
Lab Sample Id: 577905-001	Date Collected: 02.26.18 14.10	Sample Depth:6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042731	Date Prep: 03.04.18 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.05.18 10.44	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	03.05.18 10.44		
1,4-Difluorobenzene		540-36-3	82	%	70-130	03.05.18 10.44		





LT Environmental, Inc., Arvada, CO

Sample Id: SS2 Lab Sample Id: 577905-002		Matrix: Date Collecte	Soil ed: 02.26.18 14.13	Date Receiv Sample Dep	ved:03.01.18 13.10 pth:6 In
Analytical Method: Inorganic Anions Tech: OJS	by EPA 300			Prep Metho % Moisture	:
Analyst: OJS Seq Number: 3043092		Date Prep:	03.07.18 10.13	Basis:	Wet Weight
Parameter	Cas Number	Result 1	RL	Units Analysis	Date Flag Dil

i arankter	Cus rumber	Result	KL.	Units	Analysis Date	Flag	Di	
Chloride	16887-00-6	<4.98	4.98	mg/kg	03.07.18 12.09	U	1	

Analytical Method: TPH by SW801 Tech: ARM	5 Mod		02.05	10.05.00	9	Prep Method: TX 6 Moisture:		
Analyst: ARM Seq Number: 3042902		Date Pre	ер: 03.05.	18 07.00	Ŀ	Basis: We	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.05.18 18.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.05.18 18.05	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.05.18 18.05	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.05.18 18.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	03.05.18 18.05		
o-Terphenyl		84-15-1	106	%	70-135	03.05.18 18.05		





LT Environmental, Inc., Arvada, CO

Sample Id: SS2	Matrix: Soil	Date Received:03.01.18 13.10
Lab Sample Id: 577905-002	Date Collected: 02.26.18 14.13	Sample Depth:6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042731	Date Prep: 03.04.18 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.05.18 10.44	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	70-130	03.05.18 10.44		
1,4-Difluorobenzene		540-36-3	73	%	70-130	03.05.18 10.44		





LT Environmental, Inc., Arvada, CO

Remuda Basin State Com #001

Sample Id: SS3 Lab Sample Id: 577905-003		Matrix: Date Colle	Soil cted: 02.26.18 14.16	Date Received:03.01.18 13. Sample Depth:6 In			0
Analytical Method: Inorganic Anio	ons by EPA 300			I	Prep Method: E30	00P	
Tech: OJS				Ģ	% Moisture:		
Analyst: OJS		Date Prep:	03.07.18 10.13	l	Basis: We	t Weight	
Seq Number: 3043092							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	154	4.95	mg/kg	03.07.18 12.14		1

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM	5 Mod	Date Pre	ep: 03.05	18 07.00	9	Prep Method: TX % Moisture: Basis: We	1005P t Weight	
Seq Number: 3042902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.05.18 18.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.05.18 18.31	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.05.18 18.31	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.05.18 18.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	03.05.18 18.31		
o-Terphenyl		84-15-1	109	%	70-135	03.05.18 18.31		





LT Environmental, Inc., Arvada, CO

Sample Id: SS3	Matrix: Soil		Date Received:03.01.18 13.10		
Lab Sample Id: 577905-003	Date Collected: 02.26.18		Sample Depth:6 In		
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042731	Date Prep: 03.04.18	Prep Method: % Moisture: 10.00 Basis:	SW5030B Wet Weight		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.05.18 10.44	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.05.18 10.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	113	%	70-130	03.05.18 10.44		
1,4-Difluorobenzene		540-36-3	91	%	70-130	03.05.18 10.44		





LT Environmental, Inc., Arvada, CO

Sample Id: SS4 Lab Sample Id: 577905-004		Matrix: Date Collect	Soil ed: 02.26.18 14.18		te Received:03 mple Depth:6		
Analytical Method: Inorganic Anions Tech: OJS Analyst: OJS Seq Number: 3043092	by EPA 300	Date Prep:	03.07.18 10.13		ep Method: E3 Moisture: sis: W	00P et Weight	
Parameter	Cas Number	Result]	RL	Units	Analysis Date	Flag	Dil

	Cas rumber	Result	KL	Units	Analysis Date	riag	Dii	
Chloride	16887-00-6	<4.99	4.99	mg/kg	03.07.18 12.30	U	1	

Analytical Method: TPH by SW801 Tech: ARM	5 Mod				9	Prep Method: TX 6 Moisture:		
Analyst: ARM Seq Number: 3042902		Date Pre	p: 03.05.	18 07.00	E	Basis: We	t Weight	
Seq Number. 3042902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.05.18 18.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.05.18 18.57	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.05.18 18.57	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.05.18 18.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	03.05.18 18.57		
o-Terphenyl		84-15-1	94	%	70-135	03.05.18 18.57		





LT Environmental, Inc., Arvada, CO

Sample Id: SS4	Matrix:	Soil	Date Received:03.01.18 13.10		
Lab Sample Id: 577905-004	Date Collecte	ed: 02.26.18 14.18	Sample Depth:6 In		
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042731	Date Prep:	03.04.18 10.00	Prep Meth % Moistur Basis:	od: SW5030B e: Wet Weight	

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.05.18 10.44	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.05.18 10.44	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.05.18 10.44	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.05.18 10.44	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.05.18 10.44	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.05.18 10.44	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.05.18 10.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	80	%	70-130	03.05.18 10.44		
4-Bromofluorobenzene		460-00-4	116	%	70-130	03.05.18 10.44		





LT Environmental, Inc., Arvada, CO

Sample Id: SS5 Lab Sample Id: 577905-005		Matrix: Date Collecte	Soil ed: 02.26.18 14.21	Date Received:03.01.18 13.10 Sample Depth:6 In					
Analytical Method:Inorganic AnionsTech:OJSAnalyst:OJSSeq Number:3043092	by EPA 300	Date Prep:	03.07.18 10.13	%	rep Method: E Moisture: asis: V	300P Vet Weight			
Parameter	Cas Number	Result I	RL	Units	Analysis Date	Flag	Dil		

	Cas Number	Ktsuit	KL	Units	Analysis Date	riag	Dii	
Chloride	16887-00-6	<4.96	4.96	mg/kg	03.07.18 12.35	U	1	-

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3042902	5 Mod	Date Pre	p: 03.05.	18 07.00	Prep Method: TX1005P % Moisture: Basis: Wet Weight				
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.05.18 19.22	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.05.18 19.22	U	1	
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.05.18 19.22	U	1	
Total TPH	PHC635	<15.0	15.0		mg/kg	03.05.18 19.22	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	105	%	70-135	03.05.18 19.22			
o-Terphenyl		84-15-1	106	%	70-135	03.05.18 19.22			

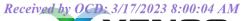




LT Environmental, Inc., Arvada, CO

Sample Id: SS5	Matrix: Soil	Date Received:03.01.18 13.10
Lab Sample Id: 577905-005	Date Collected: 02.26.18 14.21	Sample Depth:6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042731	Date Prep: 03.04.18 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.05.18 10.44	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.05.18 10.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	03.05.18 10.44		
1,4-Difluorobenzene		540-36-3	77	%	70-130	03.05.18 10.44		



Flagging Criteria



Page 28 of 33

- 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	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	oratory 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

Received by OCD: 3/17/2023 8:00:04 AM



LT Environmental, Inc.

Remuda Basin State Com #001

Analytical Method: Seq Number: MB Sample Id:	Inorganic Anions b 3043092 7640346-1-BLK	y EPA 300	Matrix: Solid LCS Sample Id: 7640346-1-BKS					Prep Method: E300P Date Prep: 03.07.18 LCSD Sample Id: 7640346-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag	
Chloride	<5.00	250	248	99	240	96	90-110	3	20	mg/kg	03.07.18 10:25		
Analytical Method:	Inorganic Anions b	y EPA 300						P	rep Metho				
Seq Number:	3043092			Matrix:	Soil				Date Pro	ep: 03.0	7.18		

Parent Sample Id:	577880-004		MS Sa	mple Id:	l: 577880-004 S MSD Sample Id: 577880-004 SI					880-004 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Chloride	97.7	247	381	115	365	108	90-110	4	20	mg/kg	03.07.18 11:05	х

Analytical Method:	Inorganic Anions by	y EPA 300						Prep Method: E300P				
Seq Number:	3043092			Matrix:	Soil				Date Pre	ep: 03.0	7.18	
Parent Sample Id:	577905-003		MS Sample Id: 577905-003 S					MSD Sample Id: 577905-003 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Chloride	154	248	449	119	402	100	90-110	11	20	mg/kg	03.07.18 12:20	Х

Analytical Method:	TPH by S	W8015 M	od					Prep Method: TX1005P						
Seq Number:	3042902				Matrix:	Solid				Date Pr	ep: 03.0	5.18		
MB Sample Id:	7640248-1	-BLK		LCS Sat	mple Id:	7640248-	1-BKS		LCS	D Sample	d: 764	0248-1-BSD		
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	1030	103	1030	103	70-135	0	35	mg/kg	03.05.18 09:05		
Diesel Range Organics ((DRO)	<15.0	1000	1060	106	1050	105	70-135	1	35	mg/kg	03.05.18 09:05		
Surrogate		MB %Rec	MB Flag			LCS Flag	LCSE %Rec			imits	Units	Analysis Date		
1-Chlorooctane		99		1	21		115		70	0-135	%	03.05.18 09:05		
o-Terphenyl		100		1	22		113		70	0-135	%	03.05.18 09:05		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery $LCS = Laboratory Control Sample \\ A = Parent Result \\ C = MS/LCS Result \\ E = MSD/LCSD Result$

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

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LT Environmental, Inc.

Remuda Basin State Com #001

Analytical Method:	TPH by S	W8015 M	od						Prep Method: TX1005P				
Seq Number:	3042902				Matrix:	Soil				Date Pr	ep: 03.0	5.18	
Parent Sample Id:	577773-0	11		MS Sat	mple Id:	577773-0	11 S		MSD Sample Id: 577773-011 SD				
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	% RP D	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	999	1010	101	1040	104	70-135	3	35	mg/kg	03.05.18 10:22	
Diesel Range Organics	(DRO)	<15.0	999	1060	106	1100	110	70-135	4	35	mg/kg	03.05.18 10:22	
Surrogate					1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane				1	15		118		70)-135	%	03.05.18 10:22	
o-Terphenyl				107 111			111 70-135 % 03.05.18 10:22						

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3042731 7640121-1-BLK	lB		Matrix: mple Id:	Solid 7640121-	1-BKS		Prep Method: SW5030B Date Prep: 03.04.18 LCSD Sample Id: 7640121-1-BSD							
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag			
Benzene	< 0.00199	0.0994	0.0815	82	0.0764	77	70-130	6	35	mg/kg	03.05.18 10:44				
Toluene	< 0.00199	0.0994	0.0784	79	0.0780	78	70-130	1	35	mg/kg	03.05.18 10:44				
Ethylbenzene	< 0.00199	0.0994	0.0818	82	0.0814	82	70-130	0	35	mg/kg	03.05.18 10:44				
m,p-Xylenes	< 0.00398	0.199	0.159	80	0.159	80	70-130	0	35	mg/kg	03.05.18 10:44				
o-Xylene	< 0.00199	0.0994	0.0821	83	0.0821	82	70-130	0	35	mg/kg	03.05.18 10:44				
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec		_	imits	Units	Analysis Date				
1,4-Difluorobenzene	83		-	72		91		7	0-130	%	03.05.18 10:44				
4-Bromofluorobenzene	113		1	21		122		7	0-130	%	03.05.18 10:44				

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3042731 577904-001	ΙB		Matrix: nple Id:	Soil 577904-0	01 S		Prep Method: SW5030B Date Prep: 03.04.18 MSD Sample Id: 577904-001 SD							
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag			
Benzene	< 0.00199	0.0994	0.0520	52	0.0505	51	70-130	3	35	mg/kg	03.05.18 10:44	Х			
Toluene	< 0.00199	0.0994	0.0380	38	0.0352	35	70-130	8	35	mg/kg	03.05.18 10:44	Х			
Ethylbenzene	< 0.00199	0.0994	0.0299	30	0.0283	28	70-130	5	35	mg/kg	03.05.18 10:44	Х			
m,p-Xylenes	< 0.00398	0.199	0.0554	28	0.0519	26	70-130	7	35	mg/kg	03.05.18 10:44	Х			
o-Xylene	< 0.00199	0.0994	0.0291	29	0.0271	27	70-130	7	35	mg/kg	03.05.18 10:44	Х			
Surrogate					MS Flag	MSD %Rec			imits	Units	Analysis Date				
1,4-Difluorobenzene			Ģ	90		91		70)-130	%	03.05.18 10:44				
4-Bromofluorobenzene			1	20		120		7(0-130	%	03.05.18 10:44				

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

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Received by	OCD: 3/17/2023	8:00:04 AM
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900 Rouge, LA (832) 712-8143 Analytical Information Analytical Information Analytical Information Temp: 5 7 Temp: 5 4 CF:(0-6: -0.2°C) (6-23: +0.2°C COTrected Temp Received By: 4 Marce applicable On Lee 0	Date Time: Re	ω	Date Time: Re	128 7,50 Re	MUST BE DOCUMENTED BI	0 pm												1 1 ld	I III	1 1 14	1 2/24	Date	Collection			Invoice		Project Name			94-1296	
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goo Nunge, LA (832) 712-8143 Analytical Information Analytical Information Analytical Information Analytical Information Analytical Information Constant Source Source Temp: 3. U CF: (0-6: -0.2°C) (6-23: +0.2°C) Corrected Temp Received By: Received By: Analytical Information CF: (0-6: -0.2°C) Corrected Temp Received By: Analytical Information	4 Custody Seal #	Δ	Relinquished By:	Relinguished By:	POSSESSION, INCLUDING COURIER		cklist	UST / RG -411	TRRP Level IV	Level IV (Full Data Pkg /raw	tion						X	X	+	*	X	H2SO4 NaOH NaHSO4 MEOH NONE		ny	Littrelly	1/18		COM #001			Phoenix, AZ (Service Cente Xenc	+-
oubb# 5.7 5.7 10:00 6-23: +0.2°C (6-23: +0.2°C (6-23: +0.2°C (6-23: +0.2°C (6-23: +0.2°C)	Preserved where applicable		Date Time:	Date Time: ク/1 ス・ル	DELIVERY												K		7 7	X		TP	ΫĻ	Je.	01	5	0.1		Analytical Informati			
			Received By:	Received By:	57	PS: Tracking #	Sourceured Lemp: 2	(b-23: +0.2°C)	CF:(0-6: -0.2°C)	remp: 3.4	-																			0	o Job# パリノ	

Received by OCD: 3/17/2023 8:00:04 AM

Client: LT Environmental, Inc.

Work Order #: 577905



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/01/2018 01:10:00 PM Temperature Measuring device used : R8

Comments Sample Receipt Checklist 3.2 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? No TPH received in bulk jars #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No #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:

Date: 03/01/2018

Checklist reviewed by: fession Whamer

Jessica Kramer

Date: 03/01/2018

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:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	198169
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

0			
C E		Condition	Condition Date
	bhall	Closure approved under the old rules based on dates in the report and final C-141.	3/17/2023

CONDITIONS

Page 33 of 33

Action 198169