1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NVV2003155809
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party XTO Energy					OGRID	5380		
Contact Nam	ie Kyle Li	ittrell			Contact Telephone 432-221-7331			
Contact email Kyle_Littrell@xtoenergy.com				Incident #	# (assigned by OCD) NVV2003155809			
Contact mail 88220	ing address	522 W. Mermod	d, Carlsbad, NM					
			Location	of R	elease So	Source		
Latitude 32.	179809		(NAD 83 in dec		Longitude grees to 5 decim			
Site Name P	oker Lake U	Init DTD #36 SWI	D		Site Type	SWD		
Date Release	Discovered	1/9/2020			API# (if appl #001)	oplicable) 30-015-45237 (PLU 36-DTD STATE SWD		
Unit Letter	Section	Township	Range		Coun	inty		
A	36	24S 30E EDDY						
Surface Owner	Materia	Federal Tr	Nature and	l Vol	ume of F	ic justification for the volumes provided below)		
		Volume Release				Volume Recovered (bbls) 0.0		
⊠ Produced	Water	Volume Release				Volume Recovered (bbls) 45.0		
		Is the concentrat produced water >	ion of dissolved cl >10,000 mg/l?	hloride	in the	☐ Yes ☐ No		
Condensa Condensa	te	Volume Release	d (bbls)			Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)					Volume Recovered (Mcf)			
,	☐ Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)							
release of 45 inspection wa	bbls of prod is provided l	uced water into an	impermeable con CD District 2. The	itainme e liner v	ent with 45 bl was visually	completely broke off of filter pot. This resulted in a bbls being recovered. A 48-hour advance notice of lines y inspected and determined to be insufficient. Additional	r l	

Received by OCD:	8/4/2020@0:31:23 Amate of New Mexico
Page 2	Oil Conservation Division

Incident ID	NVV20031558098220f33
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Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	YES – An unauthorized release of fluid over 25 barrels.
⊠ Yes □ No	
YES, by Adrian Baker: I	brice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Bratcher, Mike, EMNRD; Venegas, Victoria, EMNRD; 'Hamlet, Robert, EMNRD'; s'; by email Friday, January 10, 2020 9:30 AM
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.
☐ The impacted area has	s been secured to protect human health and the environment.
Released materials ha	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	coverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
N/A	
IN/A	
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the infor	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environm failed to adequately investigated	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Kyle	Littrell Title: SH&E Supervisor
Signature	Date: _1-24-20
email: Kyle_Littrell@	xtoenergy.com Telephone:
OCD Only	
Received by: Victoria \	Venegas Date: 01/31/2020

Photographs including date and GIS informationTopographic/Aerial maps

X Laboratory data including chain of custody

Page 3 of 33 NVV2003155809

Incident ID NVV2003155809
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?	>100 (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 🄀 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	ls.
Boring or excavation logs	

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.

Received by OCD: 8/4/2020 10:31:23 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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	- "8" , ")
Incident ID	NVV2003155809
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Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Kyle Littrell  Printed Name:  Signature:	Title: SH&E Supervisor  3/11/2020						
Signature:  Email: Kyle_Littrell@xtoenergy.com	Date:						
OCD Only Received by:	Date:						

Page 5 of 33

	i uge e ej
Incident ID	NVV2003155809
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the follows	ing items must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15	5.29.11 NMAC
Note That Photographs of the remediated site prior to backfill or photographs be notified 2 days prior to liner inspection)	notos of the liner integrity if applicable (Note: appropriate OCD District office
X 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 c may endanger public health or the environment. The acceptant should their operations have failed to adequately investigate an human health or the environment. In addition, OCD acceptanc compliance with any other federal, state, or local laws and/or re	Title: SH&E Supervisor  Date: 3/12/2020
OCD Only	
Received by:	Date:
	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

March 17, 2020

Mr. Mike Bratcher New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

**RE:** Closure Request

Poker Lake Unit DTD #36 SWD Incident Number NVV2003155809 Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Poker Lake Unit DTD #36 Salt Water Disposal (SWD) (Site) in Unit A, Section 36, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impact to soil by a release of produced water at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NVV2003155809.

#### **RELEASE BACKGROUND**

On January 9, 2020, a one-fourth inch carbon steel nipple was leaking due to corrosion and broke off of the filter pot resulting in the release of 45.0 barrels (bbls) of produced water inside an impermeable containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 45.0 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on January 24, 2020. A 48-hour advance notice of liner inspection was provided via email to NMOCD District 2 and, upon inspection, the liner was determined to be insufficient.

#### SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320739103584201, located approximately 1.3 miles southwest of the Site. The groundwater well



Bratcher, M. Page 2

has a reported depth to groundwater of 446 feet bgs and a total depth of 480 feet bgs. Several New Mexico Office of the State Engineer (NMOSE) wells are closer to the Site than USGS 320739103584201, however, those wells, C 03558 to the north and C 03894 to the south, have no recorded depth to groundwater data.

The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash, located approximately 2.3 miles west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a low potential karst area.

#### **CLOSURE CRITERIA**

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

 Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

#### SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On February 4, 2020, LTE evaluated the release extent based on information provided on the Form C-141 and visual observations. LTE personnel advanced a borehole via hand-auger at one location within the lined tank battery containment on the northeastern edge of the caliche well pad. Site assessment activities and vertical delineation soil sampling was completed at the location of the hole found during the liner integrity inspection conducted by XTO. Two soil samples were collected at one foot and two feet bgs (BH01 through BH01A). Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each sample were documented on a lithologic/soil sampling log and are included as Attachment 1. The borehole was backfilled with the soil removed and XTO repaired the liner. The borehole and vertical delineation soil sample location are depicted on Figure 2. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 2.



Bratcher, M. Page 3

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

#### **ANALYTICAL RESULTS**

Laboratory analytical results for delineation soil samples BH01 through BH01A, collected at depths ranging from one foot to two feet bgs, indicated benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are presented on Figure 2 and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 3.

#### **CLOSURE REQUEST**

Following the failed liner integrity inspection, LTE personnel advanced one borehole in the location of the hole in the compromised liner. Delineation soil samples BH01 through BH01A were collected from within the lined tank battery containment from depths ranging from one foot to two feet bgs to assess for the presence or absence of soil impacts as a result of the January 9, 2020 produced water release. Laboratory analytical results indicated that benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in soil samples BH01 and BH01A at depths of approximately one foot and two feet bgs, respectively. After the delineation samples were collected, XTO repaired the liner. As such, XTO respectfully requests NFA for Incident Number NVV2003155809.



Bratcher, M. Page 4

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Elizabeth Naha

Elizabeth A. Naka

Staff Environmental Scientist

Ashley L. Ager, P.G.

Senior Geologist

ashley L. ager

cc: Kyle Littrell, XTO

United States Bureau of Land Management – New Mexico

Robert Hamlet, NMOCD Victoria Venegas, NMOCD

#### Appendices:

Figure 1 Site Loctaion Map

Figure 2 Delineation Soil Sample Locations

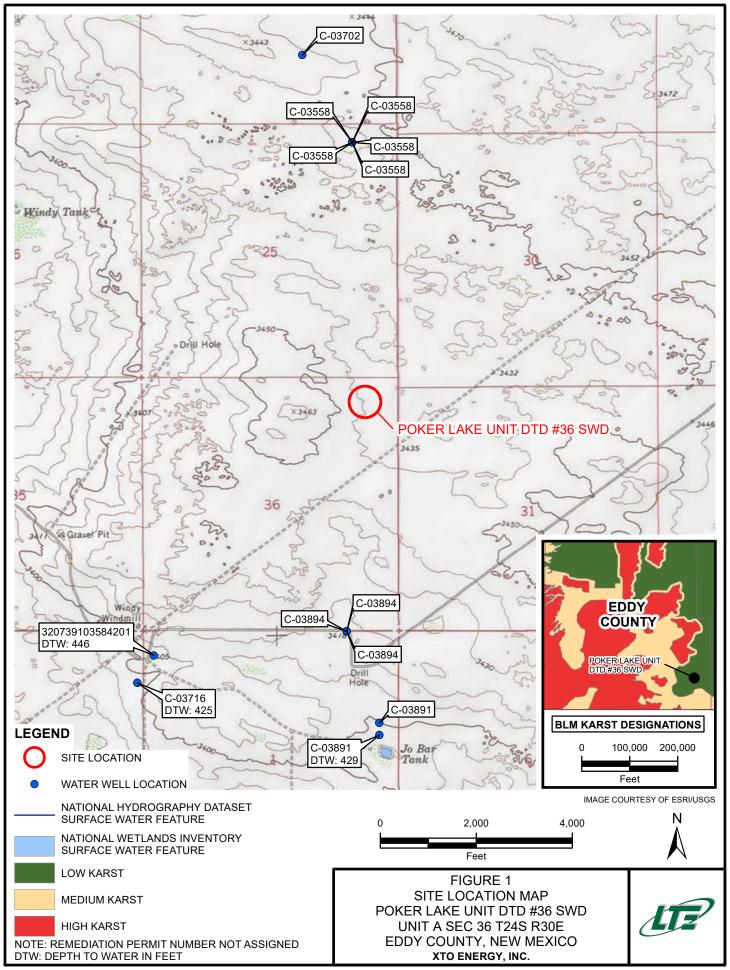
Table 1 Soil Analytical Results

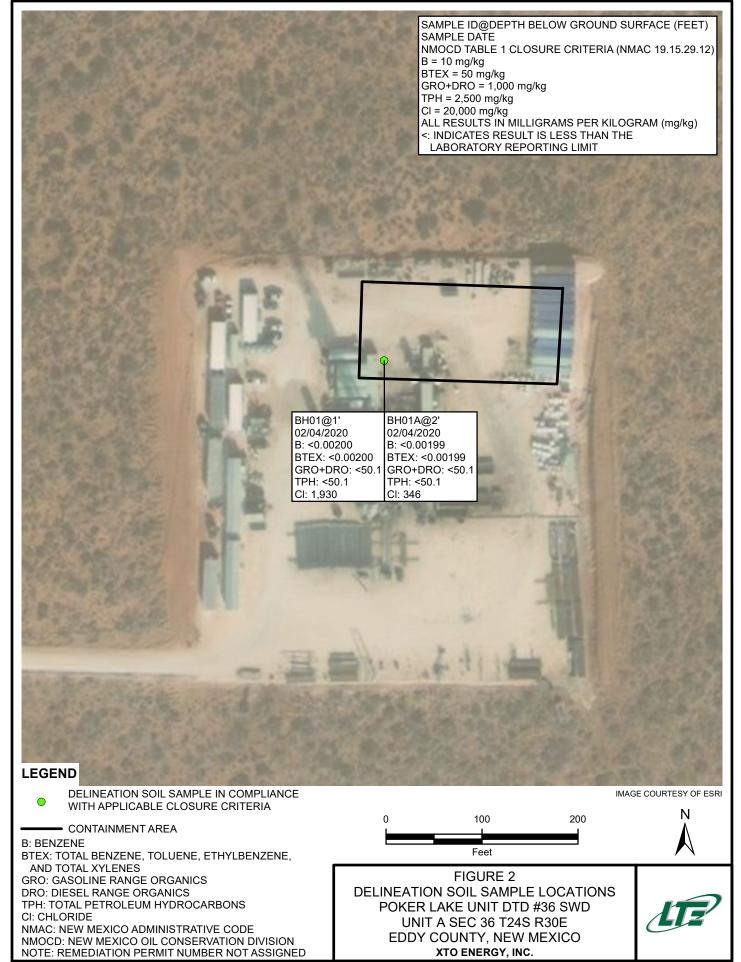
Attachment 1 Lithologic/Soil Sampling Logs

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports







# TABLE 1 SOIL ANALYTICAL RESULTS

# POKER LAKE UNIT DTD #36 SWD REMEDIATION PERMIT NUMBER NOT ASSIGNED 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)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
BH01	1	02/04/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	1,930
BH01A	2	02/04/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	346

#### Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

**Bold** - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

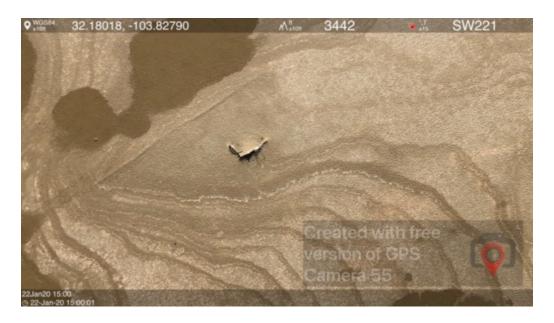




		-					4 2 3				
LT Enviror	mmental, Inc.			508 Wes	ronment It Stevens New Mexi	Street	0		Identifier: BH	<sup>1</sup> 01	Date: S/4/30  RP Number:
2	DE .		Comp	oliance · E	ingineering	g · Remed	liation		PLU DID	#36	RP. Number: 1/9/20 Sp.11 dak 0/2920015
		LITHO	LOGI	C / SOII	L SAMPI	LING LO	)G		Logged By:	JH	Method: Head Auger
Lat/Long	g:				Field Scree	ning:	11/0-	0 -	Hole Diameter:	3°	Total Depth:
Comme	nts:	70	0	۵'		110 / (	<u> </u>	<i></i>			8
-30-27			R	$\vdash^{\omega}$							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	ě		Lithology/Rea	marks
m	6.4	0.5	N	BHOL	0 ]		5 P	Poorly lowpl	gredul, laskity, no	Fine Suil	Brownish red Brownish red
m	347.2	0.4	N	BHOLA	2 -	9,	sp	Poorly low p	graded, holeshat, no	odor	15102 111
					3 - 4 - 5 - 6 - 7 - 7 - 8 - 7 - 10 - 11 - 12 - 12			71			



#### PHOTOGRAPHIC LOG



**Photograph 1:** View of area where liner was determined to be insufficient.



**Photograph 2:** View of delineation soil sample location facing east.

Poker Lake Unit DTD #36 SWD Liner 32.18018, -103.82790 Page 1 of 1 Photographs Taken: January 22 through February 4, 2020





# **Analytical Report 651532**

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLU DTD #36
012920015
10-FEB-20

Collected By: Client



## 1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Yanga Tanggar Florida (E87420) North Combine (482)

Xenco-Tampa: Florida (E87429), North Carolina (483)



10-FEB-20

Project Manager: **Dan Moir LT Environmental, Inc.**4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): 651532

PLU DTD #36
Project Address:

#### Dan Moir:

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) 651532. 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. 651532 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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

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



# **Sample Cross Reference 651532**

# LT Environmental, Inc., Arvada, CO

PLU DTD #36

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
BH01A	S	02-04-20 13:50	2 ft	651532-001
BH01	S	02-04-20 13:30	1 ft	651532-002



#### CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU DTD #36

Project ID: 012920015 Work Order Number(s): 651532 Report Date: 10-FEB-20 Date Received: 02/06/2020

#### Sample receipt non conformances and comments:

V1.001 - Revised report due to mislabeling of samples 001 & 002. This data more correctly aligns with field screenings. JK 02/10/20

#### Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments:

Batch: LBA-3115845 BTEX by EPA 8021B

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

# Received by OCD: 8/4/2020 10:31:23 AM XENCO LABORATORIES

**Certificate of Analysis Summary 651532** 

LT Environmental, Inc., Arvada, CO Project Name: PLU DTD #36

012920015

Dan Moir

**Project Location:** 

**Project Id:** 

**Contact:** 

**Date Received in Lab:** Thu Feb-06-20 08:50 am

**Report Date:** 10-FEB-20 **Project Manager:** Jessica Kramer

	Lab Id:	651532-0	001	651532-	002		
Analysis Requested	Field Id:	BH01A		BH01			
Anaiysis Requesieu	Depth:	2- ft		1- ft			
	Matrix:	SOIL		SOIL	.		
	Sampled:	Feb-04-20 1	13:50	Feb-04-20	13:30		
BTEX by EPA 8021B	Extracted:	Feb-06-20 1	10:37	Feb-06-20	10:37		
	Analyzed:	Feb-06-20 1	14:07	Feb-06-20	14:27		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00199	0.00199	< 0.00200	0.00200		
Toluene		< 0.00199	0.00199	< 0.00200	0.00200		
Ethylbenzene		< 0.00199	0.00199	< 0.00200	0.00200		
m,p-Xylenes		< 0.00398	0.00398	< 0.00401	0.00401		
o-Xylene			0.00199	< 0.00200	0.00200		
Total Xylenes		< 0.00199	0.00199	< 0.00200	0.00200		
Total BTEX		< 0.00199	0.00199	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	Feb-06-20 10:50		Feb-06-20	10:50		
	Analyzed:	Feb-06-20 1	12:25	Feb-06-20	12:31		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		346	10.0	1930	49.8		
TPH by SW8015 Mod	Extracted:	Feb-06-20 1	10:30	Feb-06-20	10:30		
	Analyzed:	Feb-06-20 1	12:54	Feb-06-20	12:54		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.1	50.1	< 50.1	50.1		
Diesel Range Organics (DRO)		< 50.1	50.1	< 50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	< 50.1	50.1		
Total GRO-DRO		< 50.1	50.1	< 50.1	50.1		
Total TPH		< 50.1	50.1	< 50.1	50.1		

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.%

Jessica Kramer Project Assistant

Jessica Vramer



## LT Environmental, Inc., Arvada, CO

PLU DTD #36

02.06.20 10.50

02.06.20 10.30

Sample Id: BH01A

Matrix: Soil

Date Received:02.06.20 08.50

Lab Sample Id: 651532-001

Date Collected: 02.04.20 13.50

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst:

MAB

Date Prep:

Basis:

Wet Weight

Seq Number: 3115840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	346	10.0	mg/kg	02.06.20 12.25		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

/0 IVIOIS

Basis: Wet Weight

Analyst: DTH Seq Number: 3115827

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	02.06.20 12.54		
o-Terphenyl		84-15-1	94	%	70-135	02.06.20 12.54		

Date Prep:



# LT Environmental, Inc., Arvada, CO

PLU DTD #36

Sample Id: BH01A

Matrix: Soil Date Received:02.06.20 08.50

Lab Sample Id: 651532-001

Date Collected: 02.04.20 13.50

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: Analyst: MAB

MAB

02.06.20 10.37 Date Prep:

% Moisture: Basis:

Wet Weight

Seq Number: 3115845

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.06.20 14.07	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	02.06.20 14.07	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.06.20 14.07	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.06.20 14.07	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	02.06.20 14.07	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	02.06.20 14.07	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	02.06.20 14.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	02.06.20 14.07		
1,4-Difluorobenzene		540-36-3	104	%	70-130	02.06.20 14.07		



## LT Environmental, Inc., Arvada, CO

PLU DTD #36

Sample Id:

**BH01** 

Matrix: Soil Date Received:02.06.20 08.50

Lab Sample Id: 651532-002

Date Collected: 02.04.20 13.30

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

MAB

Analyst: MAB

Date Prep:

02.06.20 10.50

Basis:

Wet Weight

Seq Number: 3115840

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	Flag	Dil
Chloride	16887-00-6	1930	49.8	mg/kg	02.06.20 12.31		5

Analytical Method: TPH by SW8015 Mod

DTH

Tech:

DTH Analyst:

Date Prep:

02.06.20 10.30

% Moisture:

Basis:

Prep Method: SW8015P

Wet Weight

Seq Number: 3115827

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	02.06.20 12.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	02.06.20 12.54		
o-Terphenyl		84-15-1	96	%	70-135	02.06.20 12.54		



# LT Environmental, Inc., Arvada, CO

PLU DTD #36

Sample Id: BH01

Matrix:

Soil Dat

Date Received:02.06.20 08.50

Lab Sample Id: 651532-002

Date Collected: 02.04.20 13.30

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

02.06.20 10.37

Basis:

Wet Weight

Seq Number: 3115845

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.06.20 14.27	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.06.20 14.27	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.06.20 14.27	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	02.06.20 14.27	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.06.20 14.27	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	02.06.20 14.27	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	02.06.20 14.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	02.06.20 14.27		
4-Bromofluorobenzene		460-00-4	98	%	70-130	02.06.20 14.27		



# **Flagging Criteria**

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

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

+ NELAC certification not offered for this compound.

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.



#### **QC Summary** 651532

#### LT Environmental, Inc.

Limits

PLU DTD #36

Analytical Method: Chloride by EPA 300

Seq Number: 3115840

MR

Matrix: Solid

LCS Sample Id: 7696132-1-BKS MB Sample Id: 7696132-1-BLK Spike

LCS

LCSD

LCSD

E300P Prep Method:

%RPD RPD Limit Units

Date Prep: 02.06.20

LCSD Sample Id: 7696132-1-BSD

Flag **Parameter** Result Amount Result %Rec Date %Rec Result

02.06.20 11:53 Chloride <10.0 250 258 103 258 103 90-110 0 20 mg/kg

LCS

Analytical Method: Chloride by EPA 300

Seq Number: 3115840

Matrix: Soil

MS Sample Id: 651528-001 S Prep Method: E300P

02.06.20

Analysis

Date Prep:

Parent Sample Id: 651528-001 MSD Sample Id: 651528-001 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec

Chloride 370 201 580 104 588 108 90-110 20 mg/kg 02.06.20 12:09

Analytical Method: Chloride by EPA 300

Seq Number:

3115840

651533-007

Matrix: Soil

MS Sample Id:

651533-007 S

Prep Method:

E300P

02.06.20 Date Prep:

MSD Sample Id: 651533-007 SD

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec

Chloride 6740 996 8010 128 8000 127 90-110 0 20 02.06.20 14:01 X mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

MB Sample Id:

Parent Sample Id:

3115827

7696122-1-BLK

Matrix: Solid

Prep Method:

SW8015P

Flag

Flag

02.06.20

Date Prep: 7696122-1-BKS LCSD Sample Id: 7696122-1-BSD LCS Sample Id:

LCS %RPD RPD Limit Units MB Spike LCS Limits Analysis LCSD LCSD **Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 70-135 02.06.20 11:56 < 50.0 1000 1150 115 1030 103 11 35 mg/kg 02.06.20 11:56 70-135 35 Diesel Range Organics (DRO) 1000 1170 117 1040 104 12 < 50.0 mg/kg

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 95 127 111 70-135 % 02.06.20 11:56 02.06.20 11:56 o-Terphenyl 93 115 104 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3115827

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 02.06.20

MB Sample Id: 7696122-1-BLK

**Parameter** 

MB Result < 50.0

Units Analysis Date

02.06.20 11:37 mg/kg

MS = Matrix Spike

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

Motor Oil Range Hydrocarbons (MRO)

[D] = 100\*(C-A) / BRPD = 200\* | (C-E) / (C+E) |[D] = 100 \* (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result B = Spike Added D = MSD/LCSD % Rec

Flag

Flag



Parent Sample Id:

MB Sample Id:

# QC Summary 651532

#### LT Environmental, Inc.

PLU DTD #36

Analytical Method: TPH by SW8015 Mod

651528-001

Seq Number: 3115827 Matrix: Soil

MS Sample Id: 651528-001 S

Prep Method: SW8015P

Date Prep: 02.06.20

MSD Sample Id: 651528-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	1110	111	1130	113	70-135	2	35	mg/kg	02.06.20 12:15	
Diesel Range Organics (DRO)	< 50.2	1000	1130	113	1180	118	70-135	4	35	mg/kg	02.06.20 12:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		124		70-135	%	02.06.20 12:15
o-Terphenyl	111		113		70-135	%	02.06.20 12:15

Analytical Method: BTEX by EPA 8021B

Seq Number: 3115845 Matrix: Solid

7696134-1-BLK LCS Sample Id: 7696134-1-BKS

Prep Method: SW5030B

Date Prep: 02.06.20 LCSD Sample Id: 7696134-1-BSD

Prep Method:

SW5030B

%RPD RPD Limit Units LCS LCS MB Spike Limits Analysis LCSD LCSD **Parameter** Amount Date Result Result %Rec Result %Rec 109 0.0915 70-130 17 02.06.20 11:44 Benzene < 0.00200 0.100 0.109 92 35 mg/kg 02.06.20 11:44 Toluene 0.100 0.105 105 0.0845 70-130 22 < 0.00200 85 35 mg/kg 29 02.06.20 11:44 0.100 0.0992 99 0.0744 71-129 35 Ethylbenzene < 0.00200 74 mg/kg 02.06.20 11:44 70-135 35 m,p-Xylenes < 0.00400 0.200 0.204 102 0.151 76 30 mg/kg o-Xylene < 0.00200 0.100 0.103 103 0.0783 78 71-133 27 35 02.06.20 11:44 mg/kg

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		104		102		70-130	%	02.06.20 11:44
4-Bromofluorobenzene	96		97		96		70-130	%	02.06.20 11:44

Analytical Method: BTEX by EPA 8021B

 Seq Number:
 3115845
 Matrix:
 Soil
 Date Prep:
 02.06.20

 Parent Sample Id:
 651528-001
 MS Sample Id:
 651528-001 S
 MSD Sample Id:
 651528-001 SD

MS %RPD RPD Limit Units Parent Spike MS MSD MSD Limits Analysis **Parameter** Result Amount Result %Rec %Rec Date Result 02.06.20 12:25 0.0990 122 Benzene < 0.00198 0.121 0.103 103 70-130 16 35 mg/kg Toluene < 0.00198 0.0990 0.117 118 0.0984 98 70-130 17 35 02.06.20 12:25 mg/kg mg/kg 02.06.20 12:25 Ethylbenzene < 0.00198 0.0990 0.112 113 0.0945 95 71-129 17 35 02.06.20 12:25 < 0.00396 0.198 0.231 117 0.194 97 70-135 17 35 m,p-Xylenes mg/kg 02.06.20 12:25 0.115 71-133 17 o-Xylene < 0.00198 0.0990 116 0.0969 97 35 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		105		70-130	%	02.06.20 12:25
4-Bromofluorobenzene	98		99		70-130	%	02.06.20 12:25

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



# Chain of Custody

Work Order No: US1532

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

City, State ZIP: Address: Project Manager: Company Name: Midland, TX 79705 3300 North A Street LT Environmental, Inc., Permian office Dan Moir 432.704.5178 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (7 Email: ggreen@ltenv.com; dmoir@ltenv.com Address: City, State ZIP: Company Name: Bill to: (if different) Midland, Tx 79706 500 XTO Kyle Littrell 2 Mera

Phone:

Work Order Comments  Work Order Comments  Program: UST/PST □PRP □Brownfields □RC □uperfund □  State of Project:  Reporting:Level III □PST/UST □RRP □Bvel IV □  Deliverables: EDD □ ADAPT □ Other:		Carlshd, NM 88330	my 54.			70-449-8800) Tampa,FL (813-620-2000)
Brownfields RC Lu  ST/UST RRP ADAPT Other:	Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST PRP	Work (	
age 1	ADaPT 🗆	□ST/UST		Brownfields	Order Commo	
	Other:	RRP _		RC U	ents	ige 1

not	eived	Por	Relinquished by: (Signature)	service. Xenco will be liable only Xenco. A minimum charge of \$75	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 2	.23	2217					BHOIA	SHOI	Sample Identification	Sample Custody Seals:	-	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Carot	P.O. Number: 1/4	Project Number: 0 1 d	Project Name: PLU
		White	lure) F	for the cost of samples and the cost of samples and the cost of samples and the cost of samples are the cost of samples and the cost of samples are th	Metal(s) to be analy	200.8 / 6020:							× ×	S	Matrix	Yes (to) N/A	Yes No N/A	Yes No	3,0	Temp Blank:	COPPORT SPECE MY	1/4/20 50.11	510063610	PLU 010 #36
		Sim	Received by: (Signature)	and shall not assume a th project and a charge	zed TCLP/	8RCRA							0781 offile	011/10 1330	Date Time Sampled Sampled	Total Containers:	Correction Factor:	+ ' '	Thermometer ID	No No	H:11	7		6
		a a	nature)	ny responsibility for any of \$5 for each sample s	TCLP / SPLP 6010: 8RCRA	13PPM Texas 11							١٥ )١	, 1,	ed Depth	ners:	ctor: -0-2	MM-007	neter ID	Wet Ice: Yes No	Due Date: 3/4/50	Rush: 241	Routine	Turn Around
	-	16/20 / 8:00aux 2	Date/Time	y losses or expenses incurre submitted to Xenco, but not a	RA Sb As Ba Be	Al Sb As Ba Be				61			~ × ×	X	Number TPH (EF BTEX (E	PA 80	)15) )=80	21)						The second secon
	4 0	2 With	Relinquished by: (Signature)	service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	B Cd Ca Cr Ca Cu Fe				T. C.	1													ANALYSIS REQUEST
	6	70	Received by: (Signature)	lard terms and conditions istances beyond the control previously negotiated.	9 0102												-							
Revised Date 051418 Rev. 2018.1		26 20 0825	Date/Time		1631 / 245.1 / 7470 / 7471 : Hg							2	distate	diviate	Sample Comments	lab, if received by 4:30pm								Work Order Notes

Revised Date 051418 Rev. 2018.1

#### **XENCO Laboratories**

# Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02.06.2020 08.50.00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 651532

Temperature Measuring device used: T-NM-007

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

* Must be completed for after-hours delivery of samples prior to placing in the refriger	
	1tor

Anal	vst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 02.06.2020

Checklist reviewed by: Jession Warmer

Date: 02.07.2020