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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Incident ID	NRM2004446696
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

	Party XT	O Energy		OGRID	OGRID 5380			
Contact Nan	ne Kyle L	ittrell		Contact	Contact Telephone 432-221-7331			
Contact ema	il Kyle_L	ittrell@xtoenergy	y.com	Incident	Incident # (assigned by OCD)			
Contact mai 88220	ling address	522 W. Mermo	od, Carlsbad, N	М				
			Locatio	n of Release	Source			
atitude 32	.21275		(NAD 83 in	Longitude decimal degrees to 5 dec				
Site Name	Poker Lake	Unit 213 SWD		Site Type	e SWD			
Date Release	Discovered	01-28-20		API# (if a	applicable) 30-015-33859 (Poker Lake Unit #213)			
Unit Letter	Section	Township	Range	Со	unty			
P	18	24S	30E	Eddy				
urtace Owne	er: State	⊠ Federal □ 1		(Name:	f Release			
	Materie	al(s) Released (Select	Nature as	nd Volume of	fic justification for the volumes provided below)			
Crude Oi	Materie	al(s) Released (Select Volume Releas	Nature as all that apply and attended (bbls)	nd Volume of	fic justification for the volumes provided below) Volume Recovered (bbls)			
Crude Oi	Materie	al(s) Released (Select Volume Releas Volume Releas	Nature as all that apply and attended (bbls) sed (bbls) 140	nd Volume of	fic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) 140			
Crude Oi	Materie	Volume Released Is the concentration	Nature an all that apply and attended (bbls) sed (bbls) 140 atton of dissolved	nd Volume of	fic justification for the volumes provided below) Volume Recovered (bbls)			
Crude Oi	Materie I I Water	Volume Released Is the concentration	Nature an all that apply and attended (bbls) sed (bbls) 140 atton of dissolved r >10,000 mg/l?	nd Volume of	fic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) 140			
☐ Crude Oi ☑ Produced	Materie I I Water ate	Volume Released (Select Volume Released Volume Released Is the concentration produced water	Nature and all that apply and attested (bbls) sed (bbls) attion of dissolved (bbls) attion of dissolved (bbls) sed (bbls)	nd Volume of	fic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) 140 Yes No			
☐ Crude Oi ☑ Produced ☐ Condense	Materia I I Water ate	Volume Released (Select Volume Released Volume Released Is the concentrate produced water Volume Released (Select Volu	Nature and all that apply and attested (bbls) sed (bbls) attion of dissolved (bbls) attion of dissolved (bbls) sed (bbls)	nd Volume of	fic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) 140 Yes No Volume Recovered (bbls)			

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NRM2004446696
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the re	esponsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	An unauthorized release of fluid over	er 25 barrels.
☐ Yes ☐ No		
ICVEC insmediate	esting given to the OCD? By whom? T	To whom? When and by what means (phone, email, etc)?
		Venegas; blm_nm_cfo_spill@blm.gov; Crisha
	m, EMNRD' via email on Tuesday,	
	Initia	l Response
The responsible	party must undertake the following actions imme	ediately unless they could create a safety hazard that would result in injury
☐ The source of the rel	ease has been stopped.	
☐ The impacted area h	as been secured to protect human health	and the environment.
Released materials h	ave been contained via the use of berm	s or dikes, absorbent pads, or other containment devices.
All free liquids and	recoverable materials have been remove	ed and managed appropriately.
If all the actions describe	ed above have not been undertaken, exp	olain why:
NI/A		
N/A		
Per 19.15.29.8 B. (4) NN	AAC the responsible party may comme	ence remediation immediately after discovery of a release. If remediation
has begun, please attach within a lined containme	a narrative of actions to date. If remonstrates area (see 19.15.29.11(A)(5)(a) NMA	edial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.
		to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	e required to report and/or file certain releas	e notifications and perform corrective actions for releases which may endanger
failed to adequately investi	gate and remediate contamination that pose	the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance	of a C-141 report does not relieve the opera	tor of responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Kyle	e Littrell	Title: SH&E Supervisor
Signature:	July	Date: 2/11/2020
		Teleskama
email:Kyle_Littrell(@xtoenergy.com	Telephone:
OCD Only		
	amona Marcus	Date: 02/13/2020

Received by OCD: 4/21/2020 2:07:46 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

X Laboratory data including chain of custody

	Page 3 of 3	3
Incident ID	NRM2004446696	
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 ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🏻 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination 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 Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	l s.
 ☒ Boring or excavation logs ☒ Photographs including date and GIS information ☒ Topographic/Aerial maps 	

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: 4/21/2020 2:07:46 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 4 of 3.
Incident ID	NRM2004446696
District RP	
Facility ID	
Application ID	

regulations all operapublic health or the failed to adequately	ators are required to report and/or file certain rel environment. The acceptance of a C-141 report investigate and remediate contamination that po	ease notifications and perform to by the OCD does not relied ose a threat to groundwater,	dge and understand that pursuant to OCD rules and orm corrective actions for releases which may endange the operator of liability should their operations be surface water, human health or the environment. It compliance with any other federal, state, or local land.	nger nave In
Printed Name:	Kyle Littrell	Title:	SH&E Supervisor	
Signature:	1 Ge Hard	Date:	2020	
email:	Kyle_Littrell@xtoenergy.com	Telephone:	(432) 221-7331	
OCD Only				
Received by:	Cristina Eads	Date:	04/21/2020	

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	2 480 0 0 0
Incident ID	NRM2004446696
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following iter	ms must be included in the closure report.
★ A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	f the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appropriate ODC I	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remeduman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the impacted surface area to the conductor of the occupance with 19.15.29.13 NMAC including notification to the OC Printed Name: Kyle Littrell Signature:	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in D when reclamation and re-vegetation are complete.
OCD Only	
Received by: Cristina Eads	Date: 04/21/2020
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date: 07/02/2020
Printed Name: Cristina Eads	Title: Environmental Specialist



LT Environmental, Inc.

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

April 16, 2020

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

RE: Closure Request

Poker Lake Unit 213 SWD

Incident Number: NRM2004446696

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 213 Saltwater Disposal (SWD) — Nash Draw 19 SWD (Site) in Unit P, Section 18, 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 NRM2004446696.

RELEASE BACKGROUND

On January 28, 2020, an 8-inch fiberglass line separated, resulting in the release of 140 barrels (bbls) of produced water inside a poly-lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 140 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 February 11, 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 321321103544101, located approximately 0.7 miles north of the Site. The groundwater well has

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Bratcher, M. Page 2

a reported depth to groundwater of 168 feet bgs, total well depth is not determined. There are two NMOSE wells and three USGS wells within 1.3 miles with depth to water data that indicates regional depth to water is greater than 100 feet bgs. USGS well 321321103544101 and 321205103544701 were both most recently sampled in January 1998. USGS well 321321103544101 is located 0.7 miles north of the Site and had a reported depth to water of 168 feet bgs. USGS well 321205103544701, located 0.75 miles south of the Site had a reported depth to water of 231 feet bgs. Based on this depth to water data, it is highly likely that depth to water at the Site is between 168 feet bgs and 231 feet bgs. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash, located approximately 498 feet east 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 not underlain by unstable geology (low potential karst designation 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 March 6, 2020, LTE evaluated the release 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 tank battery containment, located on the southwest edge of the caliche well pad. Site assessment activities and vertical delineation soil sampling was completed at the location of the tear in the liner found during the liner integrity inspection conducted by XTO. Two soil samples were collected at approximately 0.5 feet and 3 feet bgs (BH01 and BH01A, respectively). Soil from the discrete borehole soil samples 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 delineation soil sample location



Bratcher, M. Page 3

is depicted on Figure 2. Photographic documentation was conducted during the Site visit. The photographic log is included in Attachment 2.

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 and BH01A, collected at depths of approximately 0.5 feet and 3 feet bgs, respectively, indicated benzene, BTEX, TPH-GRO and 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 and BH01A were collected from within the lined tank battery containment at depths of approximately 0.5 feet and 3 feet bgs to assess for the presence or absence of soil impacts as a result of the January 28, 2020 produced water release. Laboratory analytical results indicated benzene, BTEX, TPH-GRO and TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in soil samples BH01 and BH01A. The liner was subsequently repaired. As such, XTO respectfully requests NFA for Incident Number NRM2004446696.

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

Ushley L. ager



Bratcher, M. Page 4

cc: Kyle Littrell, XTO

United States Bureau of Land Management – New Mexico

Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations

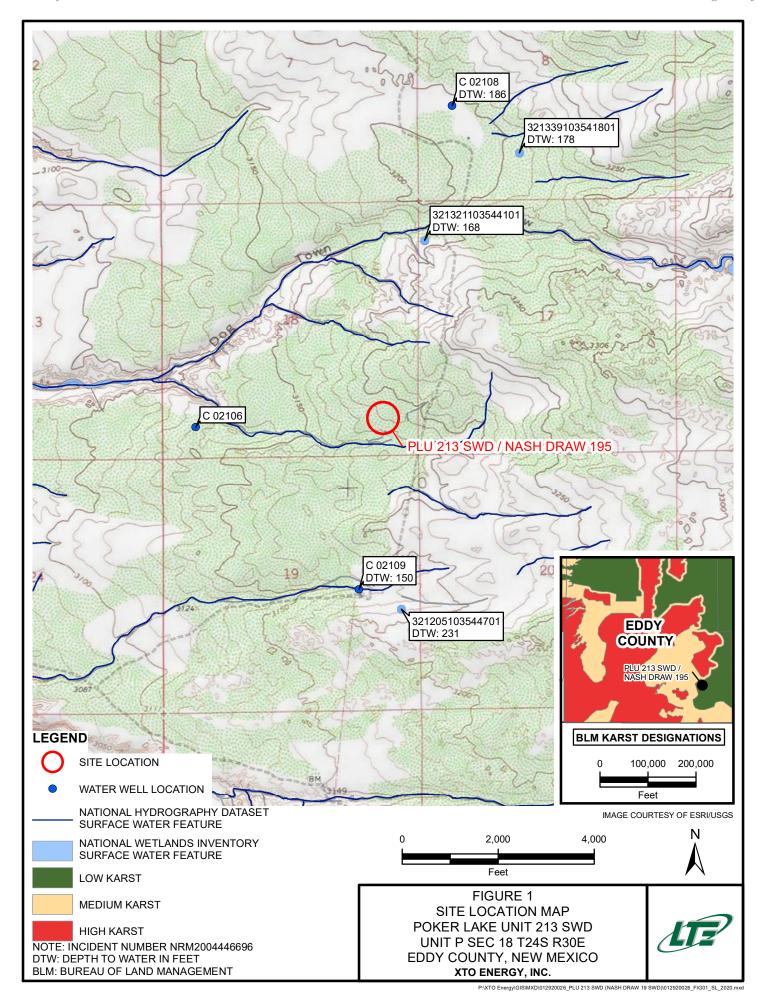
Table 1 Soil Analytical Results

Attachment 1 Lithologic/Soil Sampling Logs

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports





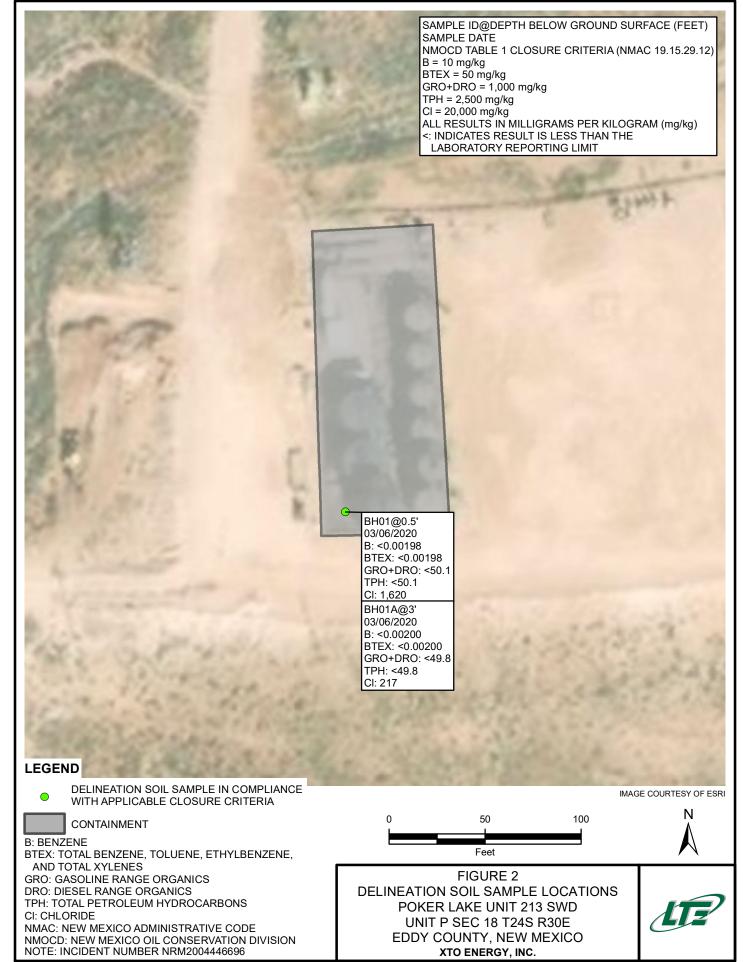




TABLE 1 SOIL ANALYTICAL RESULTS

Poker Lake Unit 213 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 Closure Criteria		eria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
BH01	0.5	03/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	1,620
BH01A	3	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	217

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

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

NE - not established

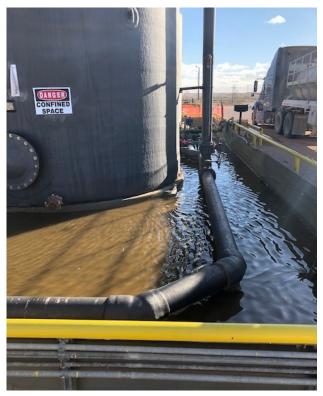




LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 A proud member of WSP Compliance · Engineering · Remediation							ion	- 1	BH or PH Name: BHO Site Name: PLU 2/3 RP or Incident Number: LTE Job Number:	Date: 03/06/20	
		LITHO	LOGI	C / SOIL	SAMPL	ING LO	G		Logged By: Robert M.	Method: Hand Augs	4
Lat/Lon	ıg:				Field Screen			dia.	Hole Diameter: 3"	Total Depth:	Ш
Comme	ents:	-			Chloride, P	שו	3	eli			٦١
Comme	Jito.										_
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholog	gy/Remarks	
M	j680	1.9	2		0.5'	0	S	CH	CE/SP-SM Br	own/Jan	
W	200	0.8	N		ι' -	1	5	Sf	CE/SP-SM Br P-SM Dark Small roun	Brown Brown and grain	
M	200	0,3	W		2'	2	5				
h	280	0\$	N	-	3'	3	5		↓		
						4					
						± 5					
						† † 6	1			•	
									K f.	15a	
		E.		li .		+ >			1 CIN	700 (
						± 8	3				
					×	† ,		X			
1						-					
						10	0				
						1	1				5
						+ ,	2				



PHOTOGRAPHIC LOG



Photograph 1: View of release collecting inside liner.



Photograph 2: View of delineation soil sample BH01 location.

PLU 213 SWD – Nash Draw 19 SWD 32.21247, -103.91473 Photographs Taken: February 19, 2020

A proud member



Analytical Report 655092

for

LT Environmental, Inc.

Project Manager: Dan Moir PLU 213 SWD/Nash Draw 195 012920026 13-MAR-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) Xenco-Tampa: Florida (E87429), North Carolina (483)



13-MAR-20

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

Reference: XENCO Report No(s): 655092

PLU 213 SWD/Nash Draw 195

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) 655092. 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. 655092 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 Kramer

Project Manager

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 655092

LT Environmental, Inc., Arvada, CO

PLU 213 SWD/Nash Draw 195

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	03-06-20 11:30	0.5 ft	655092-001
BH01A	S	03-06-20 11:39	3 ft	655092-002



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU 213 SWD/Nash Draw 195

Project ID: 012920026 Work Order Number(s): 655092 Report Date: *13-MAR-20* Date Received: *03/10/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3119165 BTEX by EPA 8021B

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



012920026

Dan Moir

Certificate of Analysis Summary 655092

LT Environmental, Inc., Arvada, CO

Project Name: PLU 213 SWD/Nash Draw 195

Date Received in Lab: Tue Mar-10-20 08:45 am

Report Date: 13-MAR-20 **Project Manager:** Jessica Kramer

Contact:

Project Id:

Project Location:

	Lab Id:	655092-0	01	655092-0	002		
Analysis Requested	Field Id:	BH01		BH01A	4		
Anaiysis Requesica	Depth:	0.5- ft		3- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Mar-06-20 1	1:30	Mar-06-20	11:39		
BTEX by EPA 8021B	Extracted:	Mar-10-20 1	10:30	Mar-10-20	10:30		
	Analyzed:	Mar-10-20 1	18:45	Mar-10-20	19:06		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00198	0.00198	< 0.00200	0.00200		
Toluene	ene <0.00198 0.00198		0.00198	< 0.00200	0.00200		
Ethylbenzene		< 0.00198	0.00198	< 0.00200	0.00200		
p-Xylenes		< 0.00396	0.00396	< 0.00400	0.00400		
Xylene		< 0.00198	0.00198	< 0.00200	0.00200		
Total Xylenes		< 0.00198	0.00198	< 0.00200	0.00200		
Total BTEX		< 0.00198	0.00198	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	Mar-10-20 1	1:22	Mar-10-20	11:22		
	Analyzed:	Mar-10-20 1	13:44	Mar-10-20	13:49		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		1620	49.6	217	9.96		
TPH by SW8015 Mod	Extracted:	Mar-10-20 1	13:30	Mar-10-20	13:30		
	Analyzed:	Mar-10-20 2	21:26	Mar-10-20	21:46		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.1	50.1	<49.8	49.8		
Diesel Range Organics (DRO)		< 50.1	50.1	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<49.8	49.8		
Total GRO-DRO		<50.1	50.1	<49.8	49.8		
Total TPH		<50.1	50.1	<49.8	49.8		

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

Jessica Kramer

Jessica Kramer Project Manager



LT Environmental, Inc., Arvada, CO

PLU 213 SWD/Nash Draw 195

Soil

Sample Id: BH01

Matrix:

Date Received:03.10.20 08.45

Lab Sample Id: 655092-001

Date Collected: 03.06.20 11.30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

MAB

Analyst: MAB

Date Prep:

03.10.20 11.22

Basis:

Wet Weight

Seq Number: 3119170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1620	49.6	mg/kg	03.10.20 13.44		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:
Analyst:

DTH DTH

03.10.20 13.30

% Moisture:

Basis: Wet Weight

Seq Number: 3119178

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1	50.1		03.10.20 21.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	03.10.20 21.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	03.10.20 21.26	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	03.10.20 21.26	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	03.10.20 21.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	03.10.20 21.26		
o-Terphenyl		84-15-1	94	%	70-135	03.10.20 21.26		

Date Prep:



LT Environmental, Inc., Arvada, CO

PLU 213 SWD/Nash Draw 195

Sample Id: BH01

Matrix: Soil

Date Received:03.10.20 08.45

Lab Sample Id: 655092-001

Date Collected: 03.06.20 11.30

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

03.10.20 10.30 Basis:

Wet Weight

Seq Number: 3119165

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	03.10.20 18.45	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	03.10.20 18.45	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	03.10.20 18.45	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	03.10.20 18.45	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	03.10.20 18.45	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	03.10.20 18.45	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	03.10.20 18.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	03.10.20 18.45		
4-Bromofluorobenzene		460-00-4	94	%	70-130	03.10.20 18.45		



LT Environmental, Inc., Arvada, CO

PLU 213 SWD/Nash Draw 195

Sample Id: BH01A Matrix: Soil Date Received:03.10.20 08.45

Lab Sample Id: 655092-002

Date Collected: 03.06.20 11.39

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst:

MAB

03.10.20 11.22 Date Prep:

Basis:

Wet Weight

Seq Number: 3119170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	217	9.96	mg/kg	03.10.20 13.49		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

DTH Analyst:

03.10.20 13.30 Date Prep:

Basis:

Wet Weight

Seq Number: 3119178

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	03.10.20 21.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	03.10.20 21.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	03.10.20 21.46	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	03.10.20 21.46	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	03.10.20 21.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	03.10.20 21.46		
o-Terphenyl		84-15-1	101	%	70-135	03.10.20 21.46		



LT Environmental, Inc., Arvada, CO

PLU 213 SWD/Nash Draw 195

Soil

Sample Id: BH01A

Matrix:

Date Received:03.10.20 08.45

Lab Sample Id: 655092-002

Date Collected: 03.06.20 11.39

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

MAB

Date Prep:

% Moisture: 03.10.20 10.30 Basis:

Wet Weight

Analyst: MAB Seq Number: 3119165

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.10.20 19.06	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.10.20 19.06	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.10.20 19.06	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	03.10.20 19.06	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.10.20 19.06	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.10.20 19.06	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.10.20 19.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	03.10.20 19.06		
1,4-Difluorobenzene		540-36-3	108	%	70-130	03.10.20 19.06		



Flagging Criteria

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

BRL Below Reporting Limit.

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



QC Summary 655092

LT Environmental, Inc.

PLU 213 SWD/Nash Draw 195

Analytical Method: Chloride by EPA 300

Seq Number: 3119170 Matrix: Solid

MR

LCS Sample Id: 7698479-1-BKS MB Sample Id: 7698479-1-BLK

E300P Prep Method:

Date Prep: 03.10.20

LCSD Sample Id: 7698479-1-BSD

Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result

03.10.20 11:35 Chloride <10.0 250 259 104 259 104 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3119170

Matrix: Soil

E300P Prep Method:

03.10.20 Date Prep:

Parent Sample Id: 655087-001 MS Sample Id: 655087-001 S MSD Sample Id: 655087-001 SD

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

Chloride <9.98 200 212 106 210 105 90-110 20 mg/kg 03.10.20 11:52

Analytical Method: Chloride by EPA 300

Seq Number:

3119170

Matrix: Soil

Prep Method: E300P

03.10.20 Date Prep:

MS Sample Id: 655087-011 S MSD Sample Id: 655087-011 SD 655087-011 Parent Sample Id:

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec 03.10.20 13:10 Chloride 249 200 463 107 460 90-110 20 106 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

3119178

MB Sample Id: 7698526-1-BLK Matrix: Solid

LCS Sample Id:

7698526-1-BKS

Prep Method:

SW8015P

Date Prep: 03.10.20

LCSD Sample Id: 7698526-1-BSD

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD **Parameter** Result %Rec Date Result Amount %Rec Result 03.10.20 15:03 Gasoline Range Hydrocarbons (GRO) 895 90 949 95 70-135 < 50.0 1000 6 35 mg/kg 03.10.20 15:03 88 875 70-135 35 Diesel Range Organics (DRO) 1000 881 88 1 < 50.0 mg/kg

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 94 104 101 70-135 % 03.10.20 15:03 101 03.10.20 15:03 o-Terphenyl 105 110 70-135 %

Analytical Method: TPH by SW8015 Mod

Seg Number:

3119178

Matrix: Solid

Prep Method: Date Prep: SW8015P

03.10.20

MB Sample Id: 7698526-1-BLK MB

Parameter

Result

Units mg/kg Analysis Flag Date

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

03.10.20 14:43

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

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



QC Summary 655092

LT Environmental, Inc.

PLU 213 SWD/Nash Draw 195

Analytical Method: TPH by SW8015 Mod

Seq Number: 3119178

Parent Sample Id: 655087-001

Matrix: Soil MS Sample Id: 655087-001 S Prep Method: SW8015P

Date Prep: 03.10.20

MSD Sample Id: 655087-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP	D RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	888	89	894	89	70-135	1	35	mg/kg	03.10.20 16:11	
Diesel Range Organics (DRO)	< 50.2	1000	958	96	993	99	70-135	4	35	mg/kg	03.10.20 16:11	
Surrogate				IS Rec	MS Flag	MSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane			10	06		108	1		70-135	%	03.10.20 16:11	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3119165

o-Terphenyl

Matrix: Solid

99

106

Prep Method: SW5030B

70-135

03.10.20 16:11

Flag

Flag

Date Prep: 03.10.20

LCS Sample Id: 7698474-1-BKS LCSD Sample Id: 7698474-1-BSD MB Sample Id: 7698474-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date
Benzene	< 0.00200	0.100	0.110	110	0.111	111	70-130	1	35	mg/kg	03.10.20 11:57
Toluene	< 0.00200	0.100	0.106	106	0.108	108	70-130	2	35	mg/kg	03.10.20 11:57
Ethylbenzene	< 0.00200	0.100	0.101	101	0.103	103	71-129	2	35	mg/kg	03.10.20 11:57
m,p-Xylenes	< 0.00400	0.200	0.209	105	0.213	107	70-135	2	35	mg/kg	03.10.20 11:57
o-Xylene	< 0.00200	0.100	0.104	104	0.106	106	71-133	2	35	mg/kg	03.10.20 11:57
~	МВ	MB	L	CS I	.CS	LCS	D LCS	D L	imits	Units	Analysis

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag			Date
1,4-Difluorobenzene	110		108		108		70-130	%	03.10.20 11:57
4-Bromofluorobenzene	98		94		92		70-130	%	03.10.20 11:57

Analytical Method: BTEX by EPA 8021B

Seq Number: 3119165

Matrix: Soil

Prep Method: SW5030B Date Prep:

03.10.20

MS Sample Id: 655087-001 S MSD Sample Id: 655087-001 SD Parent Sample Id: 655087-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%KPD	RPD Lim	it Units	Analysis Date]
Benzene	< 0.00198	0.0992	0.113	114	0.115	116	70-130	2	35	mg/kg	03.10.20 12:38	
Toluene	< 0.00198	0.0992	0.110	111	0.112	113	70-130	2	35	mg/kg	03.10.20 12:38	
Ethylbenzene	< 0.00198	0.0992	0.106	107	0.107	108	71-129	1	35	mg/kg	03.10.20 12:38	
m,p-Xylenes	< 0.00397	0.198	0.219	111	0.220	111	70-135	0	35	mg/kg	03.10.20 12:38	
o-Xylene	< 0.00198	0.0992	0.108	109	0.109	110	71-133	1	35	mg/kg	03.10.20 12:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		108		70-130	%	03.10.20 12:38
4-Bromofluorobenzene	95		92		70-130	%	03.10.20 12:38

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

[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

C = MS/LCS Result E = MSD/LCSD Result MS = Matrix SpikeB = Spike Added D = MSD/LCSD % Rec

2:07: Page 32 of 33 Received by OCD: 46 PM co: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions are successful to the control 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 Nonco. 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 forms will be enforced unless previously negotiated Sample Custody Seals: Cooler Custody Seals: Phone: Address: Received Intact: Sampler's Name: P.O. Number: Project Name: City, State ZIP: Company Name: Project Manager: Project Number: emperature (°C): SAMPLE RECEIPT Relinquished by: (Signature) Total 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed Sample Identification BHOI BHOIA Robert McAfee Dan Moir 432.704.5178 Midland, TX 79705 3300 North A Street LT Environmental, Inc., Permian office PLU 213 SWD/Nash 200.8 / 6020: 012920026 Yes No NIA Yes Yes) No Temp Blank: e (%) NIA Matrix S 03/06/20 2 Ces No Received by: (Signature) 03/06/20 Sampled Date Draw 195 Correction Factor: Total Containers: Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) FOOTWN-1 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Thermometer ID 1130 Sampled 1139 Time Wet Ice: Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Email: dmoir@ltenv.com rmcafee@ltenv.com Due Date: Rush: 24hr Routine Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Turn Around 6,5 Ð City, State ZIP: Company Name: Bill to: (if different) Address: 6 W Depth No 3/10/20 @0830 **Number of Containers** Chain of Custody Date/Time Carlsbad, NM XTO-Energy Kyle Littrel × TPH (EPA 8015) × BTEX (EPA 0=8021) Chloride (EPA 300.0) Relinquished by: (Signature) May **ANALYSIS REQUEST** Reporting:Level III Level III Deliverables: EDD Program: UST/PST PRP Brownfields State of Project: Work Order No: www.xenco.com Work Order Comments Ag SiO2 Na Sr TI Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

discrt d'iscrete

Work Order Notes

ISD/IS ADaPT []

RRP

bvel IV

RC

uperfund

Page

9

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.10.2020 08.45.00 AM

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

Work Order #: 655092

Temperature Measuring device used: T-NM-007

Sa	mple Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/	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 relinquished/ received?		
#10 Chain of Custody agrees with sample labels	s/matrix? Yes	
#11 Container label(s) legible and intact?		
#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 headspace	? N/A	

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

Anal	vst.
wila	y Ot.

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 03.10.2020

Checklist reviewed by: Jessica Warmer

Date: 03.10.2020