

June 3, 2019

Bradford Billings New Mexico Oil Conservation Division 1220 South St. Francis Drive, #3 Santa Fe, New Mexico 87505

RE: Closure Request Poker Lake Unit 400H Remediation Permit Number 2RP-4142 Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following report detailing excavation and soil sampling activities at the Poker Lake Unit 400H well pad (Site) in Unit N, Section 22, Township 24 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the excavation and soil sampling activities was to address impacts to soil after a release of crude oil and produced water at the Site.

On February 27, 2017, a corrosion hole was discovered in a buried steel flow line from the wellhead. Approximately 0.5 barrels (bbls) of crude oil and 29.5 bbls of produced water were released onto the south-central area of the caliche well pad and the pasture land south of the well pad. Approximately 557 square feet of pasture was affected by the release. A vacuum truck was dispatched to the Site to recover the free-standing fluid; approximately 0.5 bbls of crude oil and 1.5 bbls of produced water were recovered. The former operator reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on March 9, 2017, and was assigned Remediation Permit (RP) Number 2RP-4142 (Attachment 1). Although this release occurred while the facility was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement is to ensure that reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018. The release is categorized as a Tier IV site in the Compliance Agreement, meaning that the release occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation had not been completed. Based on the excavation activities and results of the confirmation soil sampling events, XTO is requesting no further action for this release.



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BACKGROUND

According to Section 12 of 19.15.29 NMAC, LTE applied Table 1, Closure Criteria for Soils Impacted by a Release. 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. The nearest permitted water well is United States Geological Survey (USGS) well 24S.31E.33.231113, located approximately 1.5 miles southwest of the Site, with a depth to groundwater of 474 feet bgs and a total depth of 740 feet bgs. The water well is approximately 60 feet lower in elevation than the Site. The nearest continuously flowing water or significant watercourse to the Site is a seasonal pond located approximately 6,125 feet northwest 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 karst potential zone. Based on these criteria, the following NMOCD Table 1 closure criteria were applied: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 2,500 mg/kg total petroleum hydrocarbons (TPH); 1,000 mg/kg TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO); and 20,000 mg/kg chloride. A closure criteria of 600 mg/kg chloride was applied to the undeveloped pasture that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

PRELIMINARY SOIL SAMPLING ACTIVITIES

On April 19, 2018, an LTE scientist collected six preliminary soil samples (SS01 through SS06) within and around the release area to assess the lateral extent of impacted soil. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and field observations. To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, the soil samples were collected from a depth of 0.5 feet. The soil samples were screened for volatile aromatic hydrocarbons and chlorides using a photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples were shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) by USEPA Method 8015M/D, and chloride by USEPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04 and SS06 indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria. Laboratory analytical results for preliminary soil sample SS05, collected from the pasture area, indicated that GRO/DRO and TPH concentrations exceeded the NMOCD Table 1 closure criteria and the chloride concentration exceeded 600 mg/kg. The laboratory analytical





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results are depicted on Figure 2 and summarized in Table 1. The preliminary soil samples were collected prior to the Compliance Agreement and the August 14, 2018, NMOCD modification to 19.15.29 NMAC, which affected the remediation action level for chloride. At the time of sampling, XTO proceeded with remediation based on visible surface staining and laboratory analytical results for preliminary soil samples SS01, SS04, and SS05 indicating chloride concentrations exceeded 600 mg/kg chloride, which was the standard applied to all sites at that time.

EXCAVATION SOIL SAMPLING ACTIVITIES

During July, 2018, LTE personnel returned to the Site to oversee excavation of impacted soil as indicated by visible surface staining and laboratory analytical results. To delineate hydrocarbon and chloride impacts to soil and direct excavation activities, LTE screened soil samples using a PID and Hach[®] chloride QuanTab[®] test strips. Impacted soil was excavated from the release area to a depth ranging from 5.5 feet to 9 feet bgs. Following removal of impacted soil, LTE collected confirmation soil samples from the sidewalls and floor of the excavation. Confirmation soil samples FS01 through FS07 were collected from the floor of the excavation from depths ranging from 5.5 feet to 9 feet bgs. Confirmation soil samples SW03 through SW15 were collected from the sidewalls of the excavation from depths ranging from 3 feet to 5 feet bgs. Sidewall samples SW01 and SW02 were collected for field screening purposes only; the samples were not submitted for laboratory analysis.

The excavation soil samples were collected prior to the August 14, 2018, NMOCD modification to 19.15.29 NMAC, which requires 5-point composite soil sampling. The excavation soil samples were collected as discrete soil samples. LTE applied a judgmental sampling protocol, selecting sample locations based on visual observations. The soil samples were collected, handled, and analyzed as described above and submitted to Xenco Laboratories (Xenco) in Midland, Texas. The excavation soil sample locations are presented on Figure 3.

The excavation measured approximately 11,070 square feet in area and was completed to a depth ranging from 5.5 feet to 9 feet bgs. The horizontal extent of the excavation is presented on Figure 3. Approximately 2,000 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the Lea Land landfill facility located in Hobbs, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results for excavation soil samples SW03 through SW15 and FS01 through FS07 collected from the final excavation extent indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria, Additionally, chloride concentrations were below 600 mg/kg in all excavation soil samples. Based on the laboratory analytical results, no further excavation was required. The laboratory analytical results are





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presented on Figure 3 and summarized in Table 1, and the complete laboratory analytical reports are included as Attachment 2.

CONCLUSIONS

Impacted soil was excavated from the release area and laboratory analytical results for the confirmation soil samples collected from the final excavation extent indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria and chloride concentrations were below 600 mg/kg. Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. XTO requests no further action for RP Number 2RP-4142. Upon approval of the no further action request, XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing conditions. The pasture area will be reseeded with the Bureau of Land Management (BLM) seed mixture #2. An updated NMOCD Form C-141 is included in Attachment 1. A photographic log of the Site is included as Attachment 3.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Ashley L. Ager

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO Energy, Inc. Michael Bratcher, NMOCD Robert Hamlet, NMOCD Victoria Venegas, NMOCD Jim Amos, U.S. Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1 Soil Analytical Results

Attachment 1 Initial/Final NMOCD Form C-141 (2RP-4142)



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Attachment 2 Laboratory Analytical Reports Attachment 3 Photographic Log



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FIGURES





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TABLES



TABLE 1 SOIL ANALYTICAL RESULTS

POKER LAKE UNIT 400H REMEDIATION PERMIT NUMBER 2RP-4142 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 GRO (mg/kg)	C10-C28 DRO (mg/kg)	C28-C40 ORO (mg/kg)	GRO and DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0.5	04/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	754
SS02	0.5	04/19/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	10.2
SS03	0.5	04/19/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	63.0
SS04	0.5	04/19/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	119	<15.0	119	119	10,300
SS05	0.5	04/19/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<74.8	5,990	227	5,990	6,220	2,460*
SS06	0.5	04/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	17.0*
FS01	9	07/17/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	43.8*
SW03	5	07/17/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	251*
SW04	4	07/17/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	9.19*
SW05	3.5	07/17/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	16.4	<14.9	<14.9	16.4	16.4	92.6
SW06	3.5	07/17/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	39.5
SW07	4	07/17/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	76.7
FS02	5.5	07/18/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	416
FS03	8	07/18/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	9.99
FS04	7	07/18/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	78.9
FS05	7.5	07/18/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	161
FS06	5.5	07/18/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	52.4
FS07	8.5	07/18/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	6.79*
SW08	3.5	07/18/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	108
SW09	3.5	07/18/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	22.2	<14.9	22.2	22.2	155
SW10	4	07/18/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95*
SW11	4	07/18/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	250
SW12	4.5	07/18/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	373
SW13	3.5	07/18/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	8.53
SW14	3	07/18/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	91.1
SW15	3	07/18/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<14.9	<14.9	<14.9	<14.9	<14.9	6.79
NMOCD Table 1 Closure	Criteria		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000

Notes:

bgs - below ground surface BTEX - benzene, toluene, ethylbenzene, and total xylenes mg/kg - milligrams per kilogram NE - not established NMOCD - New Mexico Oil Conservation Division DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory reporting limits

 $\ensuremath{\textbf{Bold}}\xspace$ - indicates result exceeds the applicable regulatory standard

* - indicates sample was collected in area to be reclaimed after remediation is complete; closure criteria for chloride concentration in the top 4 feet of soil is 600 mg/kg Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018 NMAC - New Mexico Administrative Code



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ATTACHMENT 1: INITIAL/FINAL NMOCD FORM C-141 (2RP-4142)

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1625 N. French Dr., Hobbs, NM 88240		New Mexi	co Resources		AR 09	2017	Form C Revised August 8	
811 S. First St., Artesia, NM 88210		vation Div		Sub	mit 1 Conv		-	
1000 Rio Brazos Road Aztec, NM 87410		St. Franci		544	(ECEIV	cordance w	ate District Off ith 19.15.29 NI	MAC.
1220 S. St. Francis Dr., Santa Fc, NM 87505		e, NM 875	-					
Release Noti	fication	1 and Co	rrective A	ction			•	
NABI707232926 Margan		OPERA	OR		🛛 Initia	al Report	Final	Report
Name of Company: BOPCO, L.P.		Contact: Am		00				
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88 Facility Name: PLU 400h			lo. 575-887-03 e: Exploration		duction			
	al Owner:					. 30-015-4	10802	
Lannan			TACE		111110			
Unit Letter Section Township Range Feet from th		N OF REL	Feet from the	East/V	Vest Line	County	······	
N 22 24S 31E 245	South		1330	West		Eddy	<u> </u>	
Latitude 32.1	<u>96227°</u>	Longitude	-103.76987	<u>l°</u>				
N	ATURE	OF RELF	EASE					
Type of Release Produced Water and Crude Oil		Volume of	Release 29.5 bb 0.5 bbl		Volume F		1.5 bbls PW 0.5 bbls Oil	
Source of Release Flow Line			our of Occurren			Hour of Dis		
Was Immediate Notice Given?		2/27/2017 t If YES, To	ime unknown Whom?		2/27/2017	7 3 pm		
Yes No No	t Required		her/Crystal Wea	ver (NM	OCD)			
By Whom? Jacob Foust Was a Watercourse Reached?			our 2/28/2017					
Yes ⊠ No		N/A	lume Impacting	the wate	cicourse.			
If a Watercourse was Impacted, Describe Fully.*		1						
N/A								
Describe Cause of Problem and Remedial Action Taken.*		·			.1 1		-,,	
Buried steel flow line from the wellhead developed hole due to	o external co	orrosion. Pipe	e section was rep	laced wi	th coated s	teel line.		
Describe Area Affected and Cleanup Action Taken.*								
Leak affected south center portion of the caliche well pad and	about 557 s	quare feet of p	pasture south of	the pad.	Free stand	ing fluids w	ere recovered.	
I hereby certify that the information given above is true and co	omplete to th	he best of my	knowledge and	understa	nd that purs	suant to NM	OCD rules and	1
regulations all operators are required to report and/or file certa public health or the environment. The acceptance of a C-141 f	in release no report by the	otifications an e NMOCD ma	nd perform corre arked as "Final H	ctive act Report" d	ions for rel loes not rel	eases which ieve the ope	may endanger rator of liabilit	y
should their operations have failed to adequately investigate an	nd remediate	e contamination	on that pose a th	reat to gi	round water	r, surface wa	ater, human he	
or the environment. In addition, NMOCD acceptance of a C-1 federal, state, or logal laws and/or regulations.	141 report d	loes not relieve	e the operator of	respons		omphance v		
			OIL CON	ISERV	ATION	DIVISIO	<u>DN</u>	
Signature: Muniq Kull			Signed By	A	la K	· · · ·		
Printed Name: Arry C. Ruth		Approved by	Environmental	Spécialis	(7 	mult		
Title: EHS Environmental Supervisor		Approval Dat	e: 3/10/1'	7	Expiration	Date: N	(A	
E-mail Address: Acruth@basspet.com		Conditions of	Approval	1				
Date: 3/8/2017 Phone: 432-661-0571		Contractions of	See at	taci	hed	Attached		
* Attach Additional Sheets If Necessary		<u></u>		<u>, p. v. 1</u>	<u></u>		2RP.41	42
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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	
District RP	2RP-4142
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-4142
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude <u>32.196227</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 400H	Site Type Exploration and Production
Date Release Discovered 2/27/2017	API# (if applicable) 30-015-40802

Unit Letter	Section	Township	Range	County
Ν	22	24S	31E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) 0.5 Volume Recovered (bbls) 0.5 Produced Water Volume Released (bbls) 29.5 Volume Recovered (bbls) 1.5 Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Other (describe)

Cause of Release

Buried steel flow line from the wellhead developed hole due to external corrosion. Pipe section was replaced with coated steel line. The leak affected the south center portion of the caliche well pad and about 557 square feet of pasture south of the pad. Free standing fluids were recovered.

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Oil Conservation Division

Incident ID	
District RP	2RP-4142
Facility ID	
Application ID	

Was this a major						
release as defined by						
19.15.29.7(A) NMAC?	Volume released was greater than 25 bbls.					
🛛 Yes 🗌 No						
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?						
By Jacob Foust to Mike Bratcher/Crystal Weaver (NMOCD) on 2/28/2017.						
By Jacob Foust to Mike Bratcher/Crystal Weaver (NMOCD) on 2/28/2017.						

Initial Response

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

 \square The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: <u>Kyle Littrell</u>	Title: <u>SH&E Supervisor</u>
Signature:	Date: <u>6/11/2019</u>
email: <u>Kyle Littrell@xtoenergy.com</u> Tele	ephone: 432-221-7331
OCD Only	
Received by:	Date:

Received by OCD: 2/24/2023 10:47:51 AM Form C-141 State of New Mexico

Oil Conservation Division

Incid	lent ID	
Distr	ict RP	2RP-4142
Facil	ity ID	
Appl	ication 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?	<u>>100</u> (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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Received by OCD: 2/24/2023 10:47:51 AM Form C-141 State of New Mexi			Page 17 of 131				
			Incident ID				
Page 4	Oil Conservation Divis	Oil Conservation Division		2RP-4142			
			Facility ID				
			Application ID				
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:	rell@xtoenergy.com	e notifications and perform of the OCD does not relieve the ocD does not relieve the a threat to groundwater, surt for of responsibility for compared to the second state of the second st	corrective actions for rele ne operator of liability sh face water, human health pliance with any other fe Supervisor	eases which may endanger ould their operations have or the environment. In deral, state, or local laws			
OCD Only							
Received by:		Date:					

Page 5

Oil Conservation Division

Incident ID	
District RP	2RP-4142
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.

<u>Closure Report Attachment Checklist</u> : Each of the following in	tems must be included in the closure report.						
\square A scaled site and sampling diagram as described in 19.15.29.	A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection). Site photographs are included.						
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)						
Description of remediation activities							
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in						
Printed Name:Kyle Littrell	Title:SH&E Supervisor						
Signature:	Date:6/1/2019						
email: <u>Kyle Littrell@xtoenergy.com</u>	Telephone:432-221-7331						
OCD Only							
Received by:	Date:						
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.						
Closure Approved by uttan Hall	Date: <u>2/24/2023</u>						
Printed Name: Brittany Hall	Title: Environmental Specialist						
l <u></u>							

Received by OCD: 2/24/2023 10:47:51 AM

Released to Imaging: 2/24/2023 10:49:05 AM





Project Id:Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 583287

LT Environmental, Inc., Arvada, CO Project Name: PLU 400/2RP-4142



Date Received in Lab:Sat Apr-21-18 10:00 amReport Date:27-APR-18Project Manager:Jessica Kramer

	Lab Id:	583287-0	001	583287-0	002	583287-0	003	583287-	004	583287-	005	583287-	006
An shusis Down seted	Field Id:	SS01		SS02		SS03		SS04		SS05		SS06	
Analysis Requested	Depth:	6- In	6- In			6- In		6- In		6- In		6- In	
	Matrix:	SOIL	,	SOIL									
	Sampled:	Apr-19-18	12:00	Apr-19-18	12:06	Apr-19-18	12:12	Apr-19-18	12:17	Apr-19-18	12:23	Apr-19-18	12:30
BTEX by EPA 8021B	Extracted:	Apr-24-18	13:00	Apr-24-18	08:00								
	Analyzed:	Apr-25-18	01:29	Apr-25-18	01:49	Apr-25-18	02:08	Apr-25-18	02:27	Apr-25-18	02:46	Apr-24-18	17:09
	Units/RL:	mg/kg	RL										
Benzene		< 0.00200	0.00200	<0.00198	0.00198	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	<0.00198	0.00198	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	<0.00198	0.00198	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200
m,p-Xylenes		< 0.00401	0.00401	<0.00397	0.00397	< 0.00402	0.00402	< 0.00404	0.00404	< 0.00403	0.00403	< 0.00399	0.00399
o-Xylene		< 0.00200	0.00200	<0.00198	0.00198	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	<0.00198	0.00198	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200
Total BTEX		< 0.00200	0.00200	<0.00198	0.00198	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Apr-27-18	09:00										
	Analyzed:	Apr-27-18	09:57	Apr-27-18	10:15	Apr-27-18	10:21	Apr-27-18	10:27	Apr-27-18	10:33	Apr-27-18	10:51
	Units/RL:	mg/kg	RL										
Chloride		754	4.96	10.2	4.99	63.0	4.95	10300	99.4	2460	24.9	17.0	4.95
TPH By SW8015 Mod	Extracted:	Apr-24-18	14:00										
	Analyzed:	Apr-24-18	20:11	Apr-24-18	20:37	Apr-24-18	21:03	Apr-24-18	21:29	Apr-24-18	21:54	Apr-24-18	23:12
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<74.8	74.8	<14.9	14.9
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	119	15.0	5990	74.8	<14.9	14.9
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	227	74.8	<14.9	14.9
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	119	15.0	6220	74.8	<14.9	14.9

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 kramer

Jessica Kramer Project Assistant

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for LT Environmental, Inc.

Project Manager: Adrian Baker PLU 400/2RP-4142

27-APR-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) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



27-APR-18

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

Reference: XENCO Report No(s): 583287 PLU 400/2RP-4142 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) 583287. 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. 583287 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jession Vermer

Jessica Kramer Project Assistant

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

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Sample Cross Reference 583287



LT Environmental, Inc., Arvada, CO

PLU 400/2RP-4142

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	04-19-18 12:00	6 In	583287-001
SS02	S	04-19-18 12:06	6 In	583287-002
SS03	S	04-19-18 12:12	6 In	583287-003
SS04	S	04-19-18 12:17	6 In	583287-004
SS05	S	04-19-18 12:23	6 In	583287-005
SS06	S	04-19-18 12:30	6 In	583287-006

Released to Imaging: 2/24/2023 10:49:05 AM



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU 400/2RP-4142

Project ID: Work Order Number(s): 583287 Report Date: 27-APR-18 Date Received: 04/21/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3047814 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3047816 BTEX by EPA 8021B

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





LT Environmental, Inc., Arvada, CO

Sample Id: SS01 Lab Sample Id: 583287-001		Matrix: Date Colle	Soil cted: 04.19.18 12.00		Date Received:04 Sample Depth: 6		0
Analytical Method: Chloride by EPA Tech: OJS	300				Prep Method: E3 % Moisture:	300P	
Analyst: SCM Seq Number: 3048161		Date Prep:	04.27.18 09.00			et Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	754	4.96	mg/kg	04.27.18 09.57		1

Analytical Method: TPH By SW801 Tech: ARM Analyst: ARM Sea Number: 3047856	5 Mod	Date Pre	p: 04.24.	18 14.00	9/	Prep Method: TX % Moisture: Basis: We	1005P t Weight	
Sou runnoon.		D K						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.24.18 20.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	04.24.18 20.11	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	04.24.18 20.11	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	04.24.18 20.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	04.24.18 20.11		
o-Terphenyl		84-15-1	111	%	70-135	04.24.18 20.11		





LT Environmental, Inc., Arvada, CO

Sample Id:SS01Lab Sample Id:583287-001	Matrix: Soil Date Collected: 04.19.18 12.00	Date Received:04.21.18 10.00 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3047816	Date Prep: 04.24.18 13.00	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	04.25.18 01.29	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.25.18 01.29	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.25.18 01.29	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	04.25.18 01.29	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.25.18 01.29	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.25.18 01.29	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.25.18 01.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	04.25.18 01.29		
1,4-Difluorobenzene		540-36-3	97	%	70-130	04.25.18 01.29		





LT Environmental, Inc., Arvada, CO

Sample Id: SS02 Lab Sample Id: 583287-002		Matrix: Date Colle	Soil cted: 04.19.18 12.06		Date Received: Sample Depth: 6		0
Analytical Method: Chloride by EPA 3 Tech: OJS	00				Prep Method: I % Moisture:	E300P	
Analyst: SCM Sea Number: 3048161		Date Prep:	04.27.18 09.00			Wet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
Chloride	16887-00-6	10.2	4.99	mg/kg	04.27.18 10.15	5	1

Analytical Method: TPH By SW801 Tech: ARM	5 Mod					Prep Method: TX % Moisture:	1005P	
Analyst: ARM		Date Pre	p: 04.24.	18 14.00	E	Basis: We	t Weight	
Seq Number: 3047856								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.24.18 20.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	04.24.18 20.37	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	04.24.18 20.37	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	04.24.18 20.37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	04.24.18 20.37		
o-Terphenyl		84-15-1	108	%	70-135	04.24.18 20.37		





LT Environmental, Inc., Arvada, CO

Sample Id:SS02Lab Sample Id:583287-002	Matrix: Soil Date Collected: 04.19.18 12.06	Date Received:04.21.18 10.00 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3047816	Date Prep: 04.24.18 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.25.18 01.49	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	04.25.18 01.49	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	04.25.18 01.49	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	04.25.18 01.49	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	04.25.18 01.49	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	04.25.18 01.49	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	04.25.18 01.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	04.25.18 01.49		
4-Bromofluorobenzene		460-00-4	89	%	70-130	04.25.18 01.49		



Chloride

1-Chlorooctane

o-Terphenyl

Certificate of Analytical Results 583287



1

04.27.18 10.21

04.24.18 21.03

04.24.18 21.03

mg/kg

70-135

70-135

LT Environmental, Inc., Arvada, CO

PLU 400/2RP-4142

4.95

Analytical Method:Chloride by EPA 300Prep Method:E300PTech:OJS% Moisture:Analyst:SCMDate Prep:04.27.18 09.00Basis:Wet WeightSeq Number:30481613048161Seq Number:3048161Seq Number:Seq Number: <th>Parameter</th> <th></th> <th>Cas Number</th> <th>Result</th> <th>RL</th> <th>Units</th> <th>Analysis D</th> <th>ate Flag</th> <th>Dil</th>	Parameter		Cas Number	Result	RL	Units	Analysis D	ate Flag	Dil
Analytical Method:Chloride by EPA 300Prep Method:E300PTech:OJS% Moisture:	Seq Number:	3048161							
Analytical Method: Chloride by EPA 300 Prep Method: E300P	Analyst:	SCM		Date Prep:	04.27.18 09.00		Basis:	Wet Weight	
	Tech:	OJS					% Moisture:		
	Analytical Me	ethod: Chloride by EPA 3	00				Prep Method:	E300P	
Sample Id:S803Matrix:SoilDate Received:04.21.18 10.00Lab Sample Id:583287-003Date Collected: 04.19.18 12.12Sample Depth: 6 In	1						Date Received Sample Depth)

63.0

16887-00-6

Analytical Method: TPH By SW80 Tech: ARM	15 Mod				Prep Method: TX % Moisture:	1005P	
Analyst: ARM		Date Prep	o: 04.24.18 14.00	I	Basis: We	t Weight	
Seq Number: 3047856							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.24.18 21.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.24.18 21.03	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	04.24.18 21.03	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.24.18 21.03	U	1
		Cas Number	% Bocovory Units	Limits	Analysis Date	Flag	

99

98

%

%

111-85-3

84-15-1





LT Environmental, Inc., Arvada, CO

Sample Id:SS03Lab Sample Id:583287-003	Matrix: Soil Date Collected: 04.19.18 12.12	Date Received:04.21.18 10.00 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3047816	Date Prep: 04.24.18 13.00	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	04.25.18 02.08	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.25.18 02.08	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.25.18 02.08	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.25.18 02.08	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.25.18 02.08	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.25.18 02.08	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.25.18 02.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.25.18 02.08		
1,4-Difluorobenzene		540-36-3	95	%	70-130	04.25.18 02.08		





LT Environmental, Inc., Arvada, CO

Sample Id: SS04		Matrix:	Soil		Date Received:04.	21.18 10.0	0
Lab Sample Id: 583287-004		Date Collec	ted: 04.19.18 12.17		Sample Depth: 6 In	1	
Analytical Method: Chloride by EPA	A 300				Prep Method: E3	90P	
Tech: OJS					% Moisture:		
Analyst: SCM		Date Prep:	04.27.18 09.00		Basis: We	t Weight	
Seq Number: 3048161							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10300	99.4	mg/kg	04.27.18 10.27		20

Analytical Method: TPH By SW80 Tech: ARM Analyst: ARM	15 Mod	Date Pre	p: 04.24	.18 14.00	0	Prep Method: TX 6 Moisture: Basis: We	1005P et Weight	
Seq Number: 3047856								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.24.18 21.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	119	15.0		mg/kg	04.24.18 21.29		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	04.24.18 21.29	U	1
Total TPH	PHC635	119	15.0		mg/kg	04.24.18 21.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	04.24.18 21.29		
o-Terphenyl		84-15-1	108	%	70-135	04.24.18 21.29		





LT Environmental, Inc., Arvada, CO

Sample Id:SS04Lab Sample Id:583287-004	Matrix: Soil Date Collected: 04.19.18 12.17	Date Received:04.21.18 10.00 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3047816	Date Prep: 04.24.18 13.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.25.18 02.27	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.25.18 02.27	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.25.18 02.27	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	04.25.18 02.27	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.25.18 02.27	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.25.18 02.27	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.25.18 02.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	70-130	04.25.18 02.27		
1,4-Difluorobenzene		540-36-3	102	%	70-130	04.25.18 02.27		





LT Environmental, Inc., Arvada, CO

Chloride		16887-00-6	2460	24.9	mg/kg	04.27.18 10.33		5
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3048161							
Analyst:	SCM		Date Prep:	04.27.18 09.00		Basis: We	et Weight	
Tech:	OJS					% Moisture:		
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Lab Sample Id	d: 583287-005		Date Colle	cted: 04.19.18 12.23		Sample Depth: 6 I	n	
Sample Id:	SS05		Matrix:	Soil		Date Received:04	.21.18 10.00	0

Analytical Method: TPH By SW80 Tech: ARM Analyst: ARM	15 Mod		04.24	18 14 00	9/	rep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Analyst: ARM Seq Number: 3047856		Date Pre	p: 04.24	.18 14.00	Г	Sasis. we	a weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.8	74.8		mg/kg	04.24.18 21.54	U	5
Diesel Range Organics (DRO)	C10C28DRO	5990	74.8		mg/kg	04.24.18 21.54		5
Oil Range Hydrocarbons (ORO)	PHCG2835	227	74.8		mg/kg	04.24.18 21.54		5
Total TPH	PHC635	6220	74.8		mg/kg	04.24.18 21.54		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	04.24.18 21.54		
o-Terphenyl		84-15-1	93	%	70-135	04.24.18 21.54		





LT Environmental, Inc., Arvada, CO

Sample Id:SS05Lab Sample Id:583287-005	Matrix: Soil Date Collected: 04.19.18 12.23	Date Received:04.21.18 10.00 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3047816	Date Prep: 04.24.18 13.00	Prep Method:SW5030B% Moisture:Basis:Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.25.18 02.46	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.25.18 02.46	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.25.18 02.46	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.25.18 02.46	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.25.18 02.46	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.25.18 02.46	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.25.18 02.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	70-130	04.25.18 02.46		
4-Bromofluorobenzene		460-00-4	82	%	70-130	04.25.18 02.46		





LT Environmental, Inc., Arvada, CO

Sample Id: SS06 Lab Sample Id: 583287-006		Matrix: Date Collecte	Soil d: 04.19.18 12.30		Date Received Sample Depth	1:04.21.18 10.0 : 6 In	0
Analytical Method: Chloride by Tech: OJS	EPA 300				Prep Method: % Moisture:	E300P	
Analyst: SCM		Date Prep:	04.27.18 09.00		Basis:	Wet Weight	
Seq Number: 3048161							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

r ar ameter	Cas Number	Result	KL	Units	Analysis Date	riag	DII
Chloride	16887-00-6	17.0	4.95	mg/kg	04.27.18 10.51		1

Analytical Method: TPH By SW80 Tech: ARM Analyst: ARM	15 Mod	Date Pre	p: 04.24	.18 14.00	0	Prep Method: TX % Moisture: Basis: We	t1005P et Weight	
Seq Number: 3047856								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	04.24.18 23.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	04.24.18 23.12	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	04.24.18 23.12	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	04.24.18 23.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-135	04.24.18 23.12		
o-Terphenyl		84-15-1	117	%	70-135	04.24.18 23.12		





LT Environmental, Inc., Arvada, CO

Sample Id: SS06 Lab Sample Id: 583287-006			Matrix: Date Collecte	Date Received:04.21.18 10.00 Sample Depth: 6 In				
Analytical Metho	od: BTEX by EPA 802	IB			Р	rep Method:	SW5030B	
Tech: A	LJ				%	6 Moisture:		
Analyst: A	LJ		Date Prep:	04.24.18 08.00	В	asis:	Wet Weig	ht
Seq Number: 30	047814							
Parameter		Cas Number	Result D	т	Unite	Analysis De	to Flag	Dil

Parameter	Cas Number	· Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.24.18 17.09	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.24.18 17.09	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.24.18 17.09	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.24.18 17.09	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.24.18 17.09	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.24.18 17.09	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.24.18 17.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.24.18 17.09		
1,4-Difluorobenzene		540-36-3	102	%	70-130	04.24.18 17.09		


LABORATORIES

Flagging Criteria



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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



BORATORIES

<4.95

LT Environmental, Inc. PLU 400/2RP-4142

Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 300 3048161 7643535-1-BLK	Matrix: LCS Sample Id:		Prep Method: E300P Date Prep: 04.27.18 LCSD Sample Id: 7643535-1-BSD
Parameter	MB Spike Result Amount	LCS LCS Result %Rec	LCSD LCSD Result %Rec	Limits %RPD RPD Limit Units Analysis Flag Date
Chloride	<5.00 250	238 95	243 97	90-110 2 20 mg/kg 04.27.18 09:45
Analytical Method:	Chloride by EPA 300			Prep Method: E300P
Seq Number:	3048161	Matrix:	Soil	Date Prep: 04.27.18
Parent Sample Id:	583287-001	MS Sample Id:	583287-001 S	MSD Sample Id: 583287-001 SD
Parameter	Parent Spike Result Amount	MS MS Result %Rec	MSD MSD Result %Rec	Limits %RPD RPD Limit Units Analysis Flag Date
Chloride	754 248	984 93	986 94	90-110 0 20 mg/kg 04.27.18 10:03
Analytical Method:	Chloride by EPA 300			Prep Method: E300P
Seq Number:	3048161	Matrix:	Soil	Date Prep: 04.27.18
Parent Sample Id:	583289-002	MS Sample Id:	583289-002 S	MSD Sample Id: 583289-002 SD
Parameter	Parent Spike Result Amount	MS MS Result %Rec	MSD MSD Result %Rec	Limits %RPD RPD Limit Units Analysis Flag Date

Analytical Method:	TPH By SW8015 M	Aod						I	Prep Method	I: TX	1005P	
Seq Number:	3047856			Matrix:	Solid				Date Prep	o: 04.2	24.18	
MB Sample Id:	7643390-1-BLK		LCS Sar	nple Id:	7643390-	1-BKS		LCS	SD Sample	ld: 764	3390-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbon	us (GRO) <15.0	1000	949	95	942	94	70-135	1	20	mg/kg	04.24.18 16:06	
Diesel Range Organics (D	ORO) <15.0	1000	1020	102	1010	101	70-135	1	20	mg/kg	04.24.18 16:06	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane	96		1	13		112		7	0-135	%	04.24.18 16:06	
o-Terphenyl	99		1	13		110		7	0-135	%	04.24.18 16:06	

259

251

248

101

104 90-110

20

mg/kg

3

04.27.18 11:26

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

Chloride

[D] = 100*(C-A) / B $\begin{array}{l} \text{RPD} = 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ [\text{D}] = 100^* (\text{C}) / [\text{B}] \end{array}$ 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 AddedD = MSD/LCSD % Rec



BORATORIES



LT Environmental, Inc. PLU 400/2RP-4142

Analytical Method: Seq Number:	TPH By S 3047856	W8015 N	Iod		Matrix:	Soil			F	rep Method Date Prep	o: 04.2	.005P 4.18	
Parent Sample Id:	583283-00	1		MS Sar	nple Id:	583283-00	01 S		MS	SD Sample I	d: 583	283-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	998	950	95	1030	103	70-135	8	20	mg/kg	04.24.18 17:37	
Diesel Range Organics ((DRO)	<15.0	998	982	98	1060	106	70-135	8	20	mg/kg	04.24.18 17:37	
Surrogate					1S Rec	MS Flag	MSD %Re		-	limits	Units	Analysis Date	
1-Chlorooctane				1	10		122		7	0-135	%	04.24.18 17:37	
o-Terphenyl				1	09		117		7	0-135	%	04.24.18 17:37	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3047814 7643365-1-BLK	1B		Matrix: nple Id:	Solid 7643365-	1-BKS			Prep Metho Date Pre CSD Sample	p: 04.2	5030B 24.18 3365-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.120	119	0.115	115	70-130	4	35	mg/kg	04.24.18 07:51	
Toluene	< 0.00202	0.101	0.114	113	0.110	110	70-130	4	35	mg/kg	04.24.18 07:51	
Ethylbenzene	< 0.00202	0.101	0.116	115	0.112	112	70-130	4	35	mg/kg	04.24.18 07:51	
m,p-Xylenes	< 0.00403	0.202	0.237	117	0.230	114	70-130	3	35	mg/kg	04.24.18 07:51	
o-Xylene	< 0.00202	0.101	0.118	117	0.113	113	70-130	4	35	mg/kg	04.24.18 07:51	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	96		1	10		103			70-130	%	04.24.18 07:51	
4-Bromofluorobenzene	88		9	97		92			70-130	%	04.24.18 07:51	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3047816 7643366-1-BLK	1B	LCS Sar	Matrix: nple Id:		1-BKS			Prep Metho Date Pre SD Sample	p: 04.2	5030B 24.18 3366-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	D RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.115	114	0.114	114	70-130	1	35	mg/kg	04.24.18 17:48	
Toluene	< 0.00202	0.101	0.109	108	0.108	108	70-130	1	35	mg/kg	04.24.18 17:48	
Ethylbenzene	< 0.00202	0.101	0.110	109	0.108	108	70-130	2	35	mg/kg	04.24.18 17:48	
m,p-Xylenes	< 0.00403	0.202	0.226	112	0.224	112	70-130	1	35	mg/kg	04.24.18 17:48	
o-Xylene	< 0.00202	0.101	0.114	113	0.112	112	70-130	2	35	mg/kg	04.24.18 17:48	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene	95		1	08		109			70-130	%	04.24.18 17:48	
4-Bromofluorobenzene	89		1	02		93			70-130	%	04.24.18 17:48	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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BORATORIES



LT Environmental, Inc. PLU 400/2RP-4142

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3047814 583289-001	1B		Matrix: nple Id:		01 S			Prep Method Date Prep SD Sample	p: 04.2	5030B 24.18 289-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	ORPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.107	107	0.103	103	70-130	4	35	mg/kg	04.24.18 08:30	
Toluene	< 0.00199	0.0996	0.0996	100	0.0952	95	70-130	5	35	mg/kg	04.24.18 08:30	
Ethylbenzene	< 0.00199	0.0996	0.0965	97	0.0916	92	70-130	5	35	mg/kg	04.24.18 08:30	
m,p-Xylenes	< 0.00398	0.199	0.197	99	0.186	93	70-130	6	35	mg/kg	04.24.18 08:30	
o-Xylene	< 0.00199	0.0996	0.0993	100	0.0940	94	70-130	5	35	mg/kg	04.24.18 08:30	
Surrogate				AS Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	08		106			70-130	%	04.24.18 08:30	
4-Bromofluorobenzene			9	98		102			70-130	%	04.24.18 08:30	

Analytical Method:	BTEX by EPA 802	1B						I	Prep Metho	d: SW:	5030B	
Seq Number:	3047816]	Matrix:	Soil				Date Pre	p: 04.2	24.18	
Parent Sample Id:	583285-001		MS San	nple Id:	583285-00	01 S		MS	SD Sample	Id: 5832	285-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.0983	98	0.0878	88	70-130	11	35	mg/kg	04.24.18 18:27	
Toluene	< 0.00200	0.0998	0.0934	94	0.0824	82	70-130	13	35	mg/kg	04.24.18 18:27	
Ethylbenzene	< 0.00200	0.0998	0.0937	94	0.0796	80	70-130	16	35	mg/kg	04.24.18 18:27	
m,p-Xylenes	< 0.00399	0.200	0.192	96	0.162	81	70-130	17	35	mg/kg	04.24.18 18:27	
o-Xylene	< 0.00200	0.0998	0.0977	98	0.0834	83	70-130	16	35	mg/kg	04.24.18 18:27	
Surrogate				1S Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	08		109		7	/0-130	%	04.24.18 18:27	
4-Bromofluorobenzene			1	06		103		7	/0-130	%	04.24.18 18:27	

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

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Setting t	6)
y the S	-	5
he Standard sinc	ABC	1
since	RAT	
1990		

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Stafford,Texas (281-240-4200) Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page ____ Of ___

San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

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Field Comments			Chla	TPU	BTE) TPU	NONE	NaHSO4 MEOH	NaOH	HNO3 H2SO4	Acetate HNO3	HCI NaOH/Zn	# of bottles	Matrix	Time		Date	Sample			3	
A = Air		_	md	EPH	X EI		pottles	erved	of pres	Number of preserved bottles	- 7				Collection	Colle		action	Field ID / Point of Collection		No
O = Oil WW= Waste Water			L I	tr	A				203	-40	20804-510-02		to	181	A-1916-19	μ		5	Gienn Thompson	Samplers's Name 6 (24)	San
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			th	hoe	the				ell	++-	0	KY	Ĉ,	nero	XTO Energy - Kyle Littrell	×	-5178	(432)704-5178	4	Adrian Baker	1
DW = Drinking Water P = Product SW = Surface water			<i>leth</i>	18	od e									ach	FLU - YOU	Invo	Hidle	Phone No: Phone No:	TENV. Lonn P	Email: A Baker ette NV. Lon	Em
GW =Ground Water			Pcl	01	00									-	r Ivjert Location.	- IV					
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Matrix Codes			1 mayaca	-								rmation	Project Information	Proj					g Information	Client / Reporting Information	
		Analytical Information	Analytica			-															
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Le C C (C)						_						1.00									

Received by OCD: 2/24/2023 10:47:51 AM



#14 Sample container(s) intact?

#17 Subcontract of sample(s)?

XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 04/21/2018 10:00:00 AM Temperature Measuring device used : R8 Work Order #: 583287 Comments Sample Receipt Checklist #1 *Temperature of cooler(s)? -1 #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? Yes TPH received in bulk container #13 Samples properly preserved? Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by:

#15 Sufficient sample amount for indicated test(s)?

#18 Water VOC samples have zero headspace?

#16 All samples received within hold time?

Katie Lowe

Date: 04/23/2018

Yes

Yes

Yes

No

N/A

Checklist reviewed by:

fession kramer

Jessica Kramer

Date: 04/23/2018

for LT Environmental, Inc.

Project Manager: Adrian Baker

PLU-400 H

26-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), 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 (T104704400-18-15) 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) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



26-JUL-18

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

Reference: XENCO Report No(s): **593078 PLU-400 H** Project Address: Carlsbad, 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) 593078. 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. 593078 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,

fession promer

Jessica Kramer Project Assistant

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

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



Sample Cross Reference 593078



LT Environmental, Inc., Arvada, CO

PLU-400 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	07-16-18 13:40	5.5 ft	593078-001
SW02	S	07-16-18 17:20	6 ft	593078-002



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU-400 H

Project ID: Work Order Number(s): 593078 Report Date: 26-JUL-18 Date Received: 07/20/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3057273 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id:Contact:Adrian BakerProject Location:Carlsbad, NM

Certificate of Analysis Summary 593078

LT Environmental, Inc., Arvada, CO Project Name: PLU-400 H



Date Received in Lab:Fri Jul-20-18 10:53 amReport Date:26-JUL-18Project Manager:Jessica Kramer

						1			
Lab Id:	593078-001		593078-00	2					
Field Id:	SW01		SW02						
Depth:	5.5- ft		6- ft						
Matrix:	SOIL		SOIL						
Sampled:	Jul-16-18 13:4	40	Jul-16-18 17	:20					
Extracted:	Jul-20-18 16:0	00	Jul-20-18 16	:00					
Analyzed:	Jul-22-18 21:0	08	Jul-22-18 21	:29					
Units/RL:	mg/kg	RL	mg/kg	RL					
	<0.00200 0.0	00200	< 0.00201	0.00201					
	<0.00200 0.0	00200	< 0.00201	0.00201					
	<0.00200 0.0	00200	< 0.00201	0.00201					
	<0.00399 0.0	00399	< 0.00402	0.00402					
	<0.00200 0.0	00200	< 0.00201	0.00201					
	<0.00200 0.0	00200	< 0.00201	0.00201					
	<0.00200 0.0	00200	< 0.00201	0.00201					
Extracted:	Jul-25-18 12:0	00	Jul-25-18 12	:00					
Analyzed:	Jul-25-18 14:0	03	Jul-25-18 16	:28					
Units/RL:	mg/kg	RL	mg/kg	RL					
	65.3	4.97	31.1	5.03					
Extracted:	Jul-20-18 12:0	00	Jul-20-18 12	:00					
Analyzed:	Jul-20-18 16:4	44	Jul-20-18 17	:04					
Units/RL:	mg/kg	RL	mg/kg	RL					
·	<15.0	15.0	<15.0	15.0					
	<15.0	15.0	<15.0	15.0					
	<15.0	15.0	<15.0	15.0					
	<15.0	15.0	<15.0	15.0					
	Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: SW01 Depth: 5.5- ft Matrix: SOIL Sampled: Jul-16-18 13: Extracted: Jul-20-18 16: Analyzed: Jul-22-18 21: Units/RL: mg/kg <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. <0.00200 0. Extracted: Jul-25-18 14: Units/RL: mg/kg 65.3 Lunits/RL: mg/kg <	Field Id: SW01 Depth: 5.5- ft Matrix: SOIL Sampled: Jul-16-18 13:40 Extracted: Jul-20-18 16:00 Analyzed: Jul-22-18 21:08 Units/RL: mg/kg RL Source Units/RL: mg/kg RL Units/RL: mg/kg RL Matrix: mg/kg RL	Field Id: SW01 SW02 Depth: 5.5- ft 6- ft Matrix: SOIL SOIL Sampled: Jul-16-18 13:40 Jul-16-18 17 Extracted: Jul-20-18 16:00 Jul-20-18 16 Analyzed: Jul-22-18 21:08 Jul-22-18 21 Units/RL: mg/kg RL mg/kg 300200 0.00200 <0.00201	Field Id: SW01 SW02 Depth: 5.5- ft 6- ft Matrix: SOIL SOIL Sampled: Jul-16-18 13:40 Jul-20-18 16:00 Analyzed: Jul-20-18 16:00 Jul-22-18 21:29 Units/RL: mg/kg RL mg/kg RL 30000 0.00200 <0.00201	Field Id: SW01 SW02 Depth: 5.5- ft 6- ft Matrix: SOIL SOIL Sampled: Jul-16-18 13:40 Jul-20-18 16:00 Extracted: Jul-20-18 16:00 Jul-22-18 21:29 Units/RL: mg/kg RL mg/kg RL <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 <0.00200 0.00200 <0.00201 0.00201 Jul-25-18 12:00 Jul-25-18 16:28	Field Id: SW01 SW02 Depth: 5.5- ft 6- ft Matrix: SOIL SOIL Sampled: Jul-16-18 13:40 Jul-16-18 17:20 Extracted: Jul-20-18 16:00 Jul-20-18 16:00 Analyzed: Jul-22-18 21:08 Jul-22-18 21:29 Units/RL: mg/kg RL mg/kg RL <0.00200 <0.00201 <0.00201 <0.00200 0.00200 <0.00201 <0.00200 0.00200 <0.00201 <0.00200 0.00200 <0.00201 <0.00200 0.00200 <0.00201 <0.00200 0.00201 <0.00200 0.00201 <0.00200 0.00201 <0.00200 0.00201 <0.00200 0.00201 Jul-25-18 12:00 Jul-25-18 12:00 Jul-25-18 16:28 Units/RL:	Field Id: SW01 SW02 Depth: 5.5- ft 6- ft Matrix: SOIL SOIL Sampled: Jul-16-18 13:40 Jul-20-18 16:00 Jul-20-18 16:00 Analyzed: Jul-22-18 21:08 Jul-22-18 21:29 Image RL mg/kg RL Outs/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL 0.00200 0.00201 0.00201 0.00200 0.00201 0.00201 0.00200 0.00201 0.00201 0.00201 0.00201 0.00201 0.00201 0.00201 0.00201	Field Id: SW01 SW02 Depth: 5.5- ft 6- ft Matrix: SOIL SOIL Sampled: Jul-16-18 13:40 Jul-16-18 17:20 Extracted: Jul-20-18 16:00 Jul-20-18 16:00 Jul-20-18 16:00 Analyzed: Jul-22-18 21:08 Jul-2000

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

lession Vramer

Jessica Kramer Project Assistant

Released to Imaging: 2/24/2023 10:49:05 AM

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Final 1.000





LT Environmental, Inc., Arvada, CO

PLU-400 H

Sample Id:SW01Lab Sample Id:593078-001		Matrix: Date Collec	Soil cted: 07.16.18 13.40		Date Received:07.2 Sample Depth: 5.5		3
Analytical Method: Inorganic Anio	ons by EPA 300				Prep Method: E30)0P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.25.18 12.00		Basis: We	t Weight	
Seq Number: 3057753							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	65.3	4.97	mg/kg	07.25.18 14.03		1
Analytical Method: TPH by SW80 Tech: ARM Analyst: ARM	15 Mod	Date Prep:	07.20.18 12.00		Prep Method: TX % Moisture: Basis: We	1005P t Weight	
Seq Number: 3057246							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.20.18 16.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.20.18 16.44	U	1
Dil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	ma/ka	07 20 18 16 44	II	1

Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.20.18 16.44	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.20.18 16.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	07.20.18 16.44		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:SW01Lab Sample Id:593078-001	Matrix: Soil Date Collected: 07.16.		ed:07.20.18 10.53 th: 5.5 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Methoo % Moisture:	l: SW5030B
Analyst:ALJSeq Number:3057273	Date Prep: 07.20.	18 16.00 Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.22.18 21.08	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.22.18 21.08	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.22.18 21.08	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	07.22.18 21.08	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.22.18 21.08	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.22.18 21.08	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.22.18 21.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	07.22.18 21.08		
1,4-Difluorobenzene		540-36-3	98	%	70-130	07.22.18 21.08		



Certificate of Analytical Results 593078



LT Environmental, Inc., Arvada, CO

PLU-400 H

Sample Id:	SW02		Matrix:	Soil		Date Received:07	7.20.18 10.53	
Lab Sample I	Id: 593078-002		Date Collect	ted: 07.16.18 17.20		Sample Depth: 6	ft	
Analytical M	Iethod: Inorganic Anion	s by EPA 300				Prep Method: E	300P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	07.25.18 12.00		Basis: W	et Weight	
Seq Number:	: 3057753							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	31.1	5.03	mg/kg	07.25.18 16.28		1
Chioride			5111		iiig/kg	07.25.10 10.20		-
	Iethod: TPH by SW8015					Prep Method: T	X1005P	
	Iethod: TPH by SW8015 ARM						X1005P	

Seq Number: 3057246			1					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.20.18 17.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.20.18 17.04	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.20.18 17.04	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.20.18 17.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	07.20.18 17.04		
o-Terphenyl		84-15-1	100	%	70-135	07.20.18 17.04		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:SW02Lab Sample Id:593078-002	Matrix: Soil Date Collected: 07.16.18 17.20	Date Received:07.20.18 10.53 Sample Depth: 6 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst:ALJSeq Number:3057273	Date Prep: 07.20.18 16.00) Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	07.22.18 21.29	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.22.18 21.29	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.22.18 21.29	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.22.18 21.29	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.22.18 21.29	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.22.18 21.29	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.22.18 21.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	07.22.18 21.29		
4-Bromofluorobenzene		460-00-4	106	%	70-130	07.22.18 21.29		



Flagging Criteria



Page 52 of 131

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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





QC Summary 593078

LT Environmental, Inc. PLU-400 H

Analytical Method:	Inorganic Anions b	Inorganic Anions by EPA 300						Prep Method: E300P					
Seq Number:	3057753		Matrix: Solid					Date Prep: 07.25.18					
MB Sample Id:	7659102-1-BLK		LCS Sar	nple Id:	7659102-	1-BKS	LCSD Sample Id:				: 7659102-1-BSD		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD]	RPD Limi	t Units	Analysis Date	Flag	
Chloride	< 5.00	250	254	102	255	102	90-110	0	20	mg/kg	07.25.18 13:42		

Analytical Method:	Inorganic Anions b	oy EPA 300						Pr	ep Metho	d: E30	00P	
Seq Number:	3057753			Matrix:	Soil				Date Pre	p: 07.	25.18	
Parent Sample Id:	593078-001		MS Sar	nple Id:	593078-00	01 S		MSI	O Sample	Id: 593	3078-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3057753			Matrix:	Soil				Date Pre	ep: 07.2	5.18	
Parent Sample Id:	593078-002		MS Sar	nple Id:	593078-00	02 S		MS	D Sample	Id: 593	078-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	31.1	252	273	96	273	96	90-110	0	20	mg/kg	07.25.18 16:38	

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3057246 7658835-1		od	LCS Sar	Matrix: nple Id:		1-BKS			Prep Method Date Prep SD Sample l	o: 07.2	1005P 10.18 8835-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	oons (GRO)	<15.0	1000	951	95	952	95	70-135	0	20	mg/kg	07.20.18 08:53	
Diesel Range Organics	(DRO)	<15.0	1000	955	96	964	96	70-135	1	20	mg/kg	07.20.18 08:53	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Ree	-		Limits	Units	Analysis Date	
1-Chlorooctane		98		1	20		125		7	70-135	%	07.20.18 08:53	
o-Terphenyl		103		1	09		109		7	70-135	%	07.20.18 08:53	

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





LT Environmental, Inc. PLU-400 H

Analytical Method:	TPH by S	W8015 M	lod						I	Prep Method	i: TXI	005P	
Seq Number:	3057246				Matrix:	Soil				Date Prep	p: 07.2	0.18	
Parent Sample Id:	592900-00	1		MS Sar	nple Id:	592900-00	01 S		MS	SD Sample	Id: 592	900-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	999	958	96	954	95	70-135	0	20	mg/kg	07.20.18 09:51	
Diesel Range Organics	(DRO)	<15.0	999	997	100	988	99	70-135	1	20	mg/kg	07.20.18 09:51	
Surrogate					/IS Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1-Chlorooctane				1	21		120		7	0-135	%	07.20.18 09:51	
o-Terphenyl				1	13		112		7	0-135	%	07.20.18 09:51	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3057273 7658865-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 7658865-	1-BKS			Prep Method Date Prep SD Sample	p: 07.2	5030B 0.18 8865-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0968	96	0.0981	98	70-130	1	35	mg/kg	07.22.18 12:49	
Toluene	< 0.00202	0.101	0.105	104	0.105	105	70-130	0	35	mg/kg	07.22.18 12:49	
Ethylbenzene	< 0.00202	0.101	0.101	100	0.101	101	70-130	0	35	mg/kg	07.22.18 12:49	
m,p-Xylenes	< 0.00403	0.202	0.201	100	0.200	100	70-130	0	35	mg/kg	07.22.18 12:49	
o-Xylene	< 0.00202	0.101	0.0990	98	0.0970	97	70-130	2	35	mg/kg	07.22.18 12:49	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	98		9	95		99			70-130	%	07.22.18 12:49	
4-Bromofluorobenzene	99		9	98		100			70-130	%	07.22.18 12:49	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3057273 593036-002	1B	MS San	Matrix: nple Id:)2 S			Prep Method Date Prep SD Sample 3	p: 07.2	5030B 20.18 036-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0302	30	0.0336	34	70-130	11	35	mg/kg	07.22.18 13:30	Х
Toluene	< 0.00199	0.0996	0.0318	32	0.0303	30	70-130	5	35	mg/kg	07.22.18 13:30	Х
Ethylbenzene	< 0.00199	0.0996	0.0302	30	0.0265	27	70-130	13	35	mg/kg	07.22.18 13:30	Х
m,p-Xylenes	< 0.00398	0.199	0.0602	30	0.0513	26	70-130	16	35	mg/kg	07.22.18 13:30	Х
o-Xylene	< 0.00199	0.0996	0.0329	33	0.0285	29	70-130	14	35	mg/kg	07.22.18 13:30	Х
Surrogate				1S Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		98		7	0-130	%	07.22.18 13:30	
4-Bromofluorobenzene			1	06		106		7	0-130	%	07.22.18 13:30	

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

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

Page 55 of 131

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Dallas (214-902-0300)	Midiand, 16	Midland, Texas (432-704-5251)			
		www.xenco.com	Xenco Quote #	Xenco Job #	543010
			-	Analytical Information	Matrix Codes
Cillent / Reporting Information		oject Inform			
Company Name / Branch: LT Environmental, Inc Permian Office	Project Name/Number:	Number: PIU-LUOH			W = Water
Company Address:	Project Location:		2015		GW =Ground Wate
3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705		Carlsbad NM	0 0 0		DW = Drinking Water
Email: Phone No:			8 80		P = Product
Abaker@ltenv.com (432) 704-5178	XTO Energy - Kyle Littrell	Kyle Littrell	A		SV - Sundce Water
Project Contact: Adrian Baker	BONIMA		20		OW =Ocean/Sea Water WI = Wipe
Samplers's Name Ken Rol A.]		2RP-2142	T E I		0 = 0I
	Collection		_		A = Air
No. Field ID / Point of Collection	Sample Depth Date	Time Matrix bottles HCI IaOH/Zn Iccetate	i2SO4 iaOH iaHSO4 iEOH iONE BTE TPH ChI3		1
1 Swal	APML (~ ~ ~			
2 5002	2/6/8	1 2 6771	<u>×</u> ` ×`		
3			-		
4					
CT	`				
6	914	10 42			3
7	1++				
8					
9					
10					
Turnaround Time (Business days)		Data Deliverable Information		Notes:	
Same Day TAT		Level II Std QC	Level IV (Full Data Pkg /raw data)		
Next Day EMERGENCY		Level III Std QC+ Forms] TRRP Level IV		
2 Day EMERGENCY		Level 3 (CLP Forms)	UST / RG -411		
3 Day EMERGENCY		TRRP Checklist			
TAT Starts Day received by Lab, if received by 5:00 pm	md			FED-EX / UPS: Tracking #	
Relinquished by Sampler:		SAMPLES CHANGE POSS	Rewnquished By // , / Date	Date Time: Recyce By	
Relinquished by:		v //wv v v v v v v v v v v v v v v v v v		1 19 (6 (5: 50) Received By:	
Relinquished by:	Date Time: R	Received By: 5	Custody Seal # Preserved	Preserved where applicable	n Coole Remp. Themo
viscon transport of the control of the control of Xenco. Is affiliates and subcontractors. It assigns standard terms and conditions of 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 which cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if which cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if which cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if which cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if under a fully executed client contract the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be inforced unless previously neoplated under a fully executed client contract.	yond the control of Xenco. /	om client company to Xenco, its affiliates and subco A minimum charge of \$75 will be applied to each pr	intractors. It assigns standard terms and conditions oject. Xenco's liability will be limited to the cost of sa	of service. Xenco will be liable only for amples. Any samples received by Xeno	the cost of samples and shall not assume a o but not analyzed will be invoiced at \$5 per

Received 4 M . .

Final 1.000



After printing this label:

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Received by OCD: 2/24/2023 10:47:51 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Date/ Time Received: 07/20/2018 10:53:32 AM Work Order #: 593078 Sample Receipt Checklist .3 #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? 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)? N/A #18 Water VOC samples have zero headspace? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Button Teel

Date: 07/20/2018

Checklist reviewed by: Jessign Whamee

Jessica Kramer

Date: 07/20/2018

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

Comments

Temperature Measuring device used : R8

for LT Environmental, Inc.

Project Manager: Adrian Baker

PLU-400 H

27-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), 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 (T104704400-18-15) 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) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



27-JUL-18

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

Reference: XENCO Report No(s): **593076 PLU-400 H** Project Address: Carlsbad, 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) 593076. 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. 593076 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,

fession knomen

Jessica Kramer Project Assistant

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Sample Cross Reference 593076



LT Environmental, Inc., Arvada, CO

PLU-400 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW03	S	07-17-18 09:30	5 ft	593076-001
FS01	S	07-17-18 14:00	9 ft	593076-002
SW04	S	07-17-18 14:45	4 ft	593076-003
SW05	S	07-17-18 15:00	3.5 ft	593076-004
SW06	S	07-17-18 15:10	3.5 ft	593076-005
SW07	S	07-17-18 15:30	4 ft	593076-006



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU-400 H

Project ID: Work Order Number(s): 593076 Report Date: 27-JUL-18 Date Received: 07/20/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3057410 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3057486 BTEX by EPA 8021B

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





Project Id:Contact:Adrian BakerProject Location:Carlsbad, NM



LT Environmental, Inc., Arvada, CO Project Name: PLU-400 H



Date Received in Lab:Fri Jul-20-18 10:35 amReport Date:27-JUL-18Project Manager:Jessica Kramer

Lab Id:	593076-0	001	593076-0	002	593076-0	003	593076-0	004	593076-	005	593076-	006
Field Id:	SW03	3	FS01		SW04		SW05		SW06	5	SW07	7
Depth:	5- ft		9- ft		4- ft		3.5- ft		3.5- f	t	4- ft	
Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL	,	SOIL	,
Sampled:	Jul-17-18 (09:30	Jul-17-18	4:00	Jul-17-18	14:45	Jul-17-18	15:00	Jul-17-18	15:10	Jul-17-18	15:30
Extracted:	Jul-23-18	17:00	Jul-24-18 (08:00	Jul-24-18 (08:00	Jul-24-18 (08:00	Jul-24-18 (08:00	Jul-24-18 (08:00
Analyzed:	Jul-24-18	07:17	Jul-24-18 1	4:34	Jul-24-18 1	4:54	Jul-24-18	5:15	Jul-24-18	15:35	Jul-24-18	15:56
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00398	0.00398	< 0.00401	0.00401	< 0.00402	0.00402	< 0.00398	0.00398
	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199
Extracted:	Jul-26-18	12:00	Jul-26-18 1	2:00	Jul-26-18 1	2:00	Jul-26-18	2:00	Jul-26-18	12:00	Jul-26-18	12:00
Analyzed:	Jul-26-18	14:47	Jul-26-18 1	4:53	Jul-26-18 1	4:58	Jul-26-18	5:04	Jul-26-18	15:09	Jul-26-18	15:14
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	251	5.03	43.8	4.98	9.19	4.97	92.6	4.96	39.5	5.00	76.7	4.95
Extracted:	Jul-20-18	14:00	Jul-20-18 1	4:00	Jul-20-18 1	4:00	Jul-20-18	4:00	Jul-20-18	14:00	Jul-20-18	14:00
Analyzed:	Jul-20-18	22:01	Jul-20-18 2	2:20	Jul-20-18 2	23:18	Jul-20-18 2	23:38	Jul-20-18 2	23:57	Jul-21-18 (00:16
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	<15.0	15.0	<15.0	15.0	<15.0	15.0	16.4	14.9	<15.0	15.0	<15.0	15.0
	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
	<15.0	15.0	<15.0	15.0	<15.0	15.0	16.4	14.9	<15.0	15.0	<15.0	15.0
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: SW03 Depth: 5- ft Matrix: SOIL Sampled: Jul-17-18 Jul Jul-23-18 Analyzed: Jul-23-18 Units/RL: mg/kg Matrix: SOIL Sampled: Jul-17-18 Extracted: Jul-23-18 Malyzed: Jul-24-18 <th< th=""></th<>	Field Id: SW03 Depth: 5- ft Matrix: SOIL Sampled: Jul-17-18 09:30 Extracted: Jul-23-18 17:00 Analyzed: Jul-24-18 07:17 Units/RL: mg/kg RL Vinits/RL: mg/kg RL Units/RL: mg/kg RL	Field Id: SW03 FS01 Depth: 5- ft 9- ft Matrix: SOIL SOIL Sampled: Jul-17-18 09:30 Jul-17-18 0 Extracted: Jul-23-18 17:00 Jul-24-18 07:17 Jul-24-18 07 Matrix: mg/kg RL mg/kg Units/RL: mg/kg RL mg/kg $< < 0.00200$ 0.00200 <0.00199 $< < 0.00200$ 0.00200 <0.00199 $< < 0.00200$ 0.00200 <0.00199 $< < 0.00200$ 0.00200 <0.00199 $< < 0.00200$ 0.00200 <0.00199 $< < 0.00200$ 0.00200 <0.00199 $< < 0.00200$ 0.00200 <0.00199 $< < 0.00200$ 0.00200 <0.00199 $< < 0.00200$ 0.00200 <0.00199 Extracted: Jul-26-18 12:00 Jul-26-18 12 $Mailyzed: Jul-26-18 14:47 Jul-26-18 14 Units/RL: mg/kg RL mg/kg Mailyzed: Jul-20-18 22:01 Jul-20-18 21 Mailyzed: Jul-20-18 22:01 $	Field Id: SW03 FS01 Depth: 5- ft 9- ft Matrix: SOIL SOIL Sampled: Jul-17-18 09:30 Jul-17-18 08:00 Extracted: Jul-23-18 17:00 Jul-24-18 08:00 Analyzed: Jul-24-18 07:17 Jul-24-18 14:34 Units/RL: mg/kg RL mg/kg RL 000200 0.00200 0.00199 000200 0.00200 0.00199 000200 0.00200 0.00199 0.00199 0.00200 0.00200 0.00199 0.00199 0.00199 0.00199 0.00199 <	Field Id: SW03 FS01 SW04 Depth: 5- ft 9- ft 4- ft Matrix: SOIL SOIL SOIL Sampled: Jul-17-18 09:30 Jul-17-18 14:00 Jul-24-18 0 Analyzed: Jul-23-18 17:00 Jul-24-18 08:00 Jul-24-18 0 Analyzed: Jul-24-18 07:17 Jul-24-18 14:34 Jul-24-18 0 Units/RL: mg/kg RL mg/kg RL mg/kg < 0.00200 0.00200 <0.00199 0.00199 <0.00199 < 0.00200 0.00200 <0.00199 0.00199 <0.00199 < 0.00200 0.00200 <0.00199 0.00199 <0.00199 < 0.00200 0.00200 <0.00199 0.00199 <0.00199 < 0.00200 0.00200 <0.00199 0.00199 <0.00199 < 0.00200 0.00200 <0.00199 0.00199 <0.00199 < 0.00200 0.00200 <0.00199 0.00199 <0.00199 < 0.00200 0.00200 <	Field Id: SW03 FS01 SW04 Depth: 5- ft 9- ft 4- ft Matrix: SOIL SOIL SOIL Sampled: Jul-17-18 09:30 Jul-24-18 08:00 Jul-24-18 14:45 Extracted: Jul-23-18 17:00 Jul-24-18 08:00 Jul-24-18 08:00 Analyzed: Jul-24-18 07:17 Jul-24-18 14:34 Jul-24-18 14:54 Units/RL: mg/kg RL mg/kg RL <d0.00200< td=""> 0.00200 <0.00199</d0.00200<>	Field Id: SW03 FS01 SW04 SW05 Depth: 5- ft 9- ft 4- ft 3.5- ft Matrix: SOIL SOIL SOIL SOIL SOIL SOIL Sampled: Jul-17-18 09:30 Jul-17-18 14:00 Jul-17-18 14:45 Jul-17-18 1 Jul-17-18 14:45 Jul-17-18 1 Extracted: Jul-23-18 17:00 Jul-24-18 08:00 Jul-24-18 08:00 Jul-24-18 14:54 Jul-24-18 14:54 Jul-24-18 14:54 Jul-24-18 14:54 Units/RL: mg/kg RL mg/kg RL	Field Id: SW03 FS01 SW04 SW05 Depth: 5 · ft 9 · ft 4 · ft 3.5 · ft Matrix: SOIL SOIL SOIL Jul-17-18 1··· Jul-17-18 1··· Jul-17-18 1··· Jul-17-18 1··· Jul-21-18 0··· Jul-21-18 0···<	Field Id: SW03 FS01 SW04 SW05 SW00 Depth: 5- ft 9- ft 4- ft SOIL Jul-17-18 Jul-24-18 SOIL Jul-17-18 Sampled: Jul-23-18 T:0 Jul-24-18 SU1-24-18 SU1-24-18 SU1-24-18 Jul-24-18 Jul-24<	Field Id: SW03 FS01 SW04 SW05 SW06 SW06 Depth: 5 f: 9 f: 4 f: 3.5 f: </td <td>Field Id: SW03 FS01 SW04 SW05 SW06 SW06 SW06 Depth: $5 \cdot ft$ 9 · ft 4 · ft $3.5 \cdot ft$ $3.5 \cdot ft$ $3.5 \cdot ft$ $4 \cdot ft$ Matrix: SOIL SOIL SOIL SOIL Jul-17-18 $1 \cdot 0$ Jul-24-18 $0 \cdot 0$ Ju</td>	Field Id: SW03 FS01 SW04 SW05 SW06 SW06 SW06 Depth: $5 \cdot ft$ 9 · ft 4 · ft $3.5 \cdot ft$ $3.5 \cdot ft$ $3.5 \cdot ft$ $4 \cdot ft$ Matrix: SOIL SOIL SOIL SOIL Jul-17-18 $1 \cdot 0$ Jul-24-18 $0 \cdot 0$ Ju

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.

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lession Vramer

Jessica Kramer Project Assistant

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LT Environmental, Inc., Arvada, CO

PLU-400 H

Lab Sample Id: 593076-001 Date Collected: 07.17.18 09.30 Sample Depth: 5 ft Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300 Tech: SCM % Moisture: Analyst: SCM Basis: Wet Seq Number: 3057921 Date Prep: 07.26.18 12.00 Basis: Wet	
Tech:SCM% Moisture:Analyst:SCMDate Prep:07.26.18 12.00Basis:Wet	E300P
Analyst:SCMDate Prep:07.26.18 12.00Basis:Wet	
Due nop.	
Seq Number: 3057921	Wet Weight
ParameterCas NumberResultRLUnitsAnalysis Date	ate Flag Dil
Chloride 16887-00-6 251 5.03 mg/kg 07.26.18 14.47	.47 1

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	Moisture:		
Analyst: ARM		Date Pre	p: 07.20	.18 14.00	В	asis: We	t Weight	
Seq Number: 3057247								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.20.18 22.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.20.18 22.01	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.20.18 22.01	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.20.18 22.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	07.20.18 22.01		
o-Terphenyl		84-15-1	101	%	70-135	07.20.18 22.01		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:SW03Lab Sample Id:593076-001	Matrix: Soil Date Collected: 07.17.18 09.30	Date Received:07.20.18 10.35 Sample Depth: 5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	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	07.24.18 07.17	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.24.18 07.17	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.24.18 07.17	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	07.24.18 07.17	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.24.18 07.17	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.24.18 07.17	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.24.18 07.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	07.24.18 07.17		
4-Bromofluorobenzene		460-00-4	92	%	70-130	07.24.18 07.17		





LT Environmental, Inc., Arvada, CO

PLU-400 H

Sample Id: FS01		Matrix:	Soil		Date Received:07	2.20.18 10.3	5
Lab Sample Id: 593076-002		Date Collec	cted: 07.17.18 14.00		Sample Depth: 9	ft	
Analytical Method: Inorganic Ani	ons by EPA 300				Prep Method: E3	300P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.26.18 12.00		Basis: W	et Weight	
Seq Number: 3057921							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.8	4.98	mg/kg	07.26.18 14.53		1
Analytical Method: TPH by SW8	015 Mod				Prep Method: T2	X1005P	
Tech: ARM					% Moisture:		
Analyst: ARM		Date Prep:	07.20.18 14.00		Basis: W	et Weight	
Seq Number: 3057247							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil

Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.20.18 22.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.20.18 22.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.20.18 22.20	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.20.18 22.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	07.20.18 22.20		
o-Terphenyl		84-15-1	103	%	70-135	07.20.18 22.20		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:FS01Lab Sample Id:593076-002	Matrix: Soil Date Collected: 07.17.18 14.00	Date Received:07.20.18 10.35 Sample Depth: 9 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst: ALJ Seq Number: 3057486	Date Prep: 07.24.18 08.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	07.24.18 14.34	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	07.24.18 14.34	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	07.24.18 14.34	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	07.24.18 14.34	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	07.24.18 14.34	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	07.24.18 14.34	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	07.24.18 14.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	87	%	70-130	07.24.18 14.34		
1,4-Difluorobenzene		540-36-3	108	%	70-130	07.24.18 14.34		





LT Environmental, Inc., Arvada, CO

PLU-400 H

	SW04		Matrix:	Soil		Date Received:07.	20.18 10.3	5	
Lab Sample Id:	Lab Sample Id: 593076-003			cted: 07.17.18 14.45	Sample Depth: 4 ft				
Analytical Met	thod: Inorganic Anion	s by EPA 300				Prep Method: E3	00P		
Tech:	SCM					% Moisture:			
Analyst:	SCM		Date Prep:	07.26.18 12.00		Basis: We	t Weight		
Seq Number:	3057921								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	9.19	4.97	mg/kg	07.26.18 14.58		1	

Analytical Method: TPH by SW801	5 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 07.20	.18 14.00	E	Basis: We	et Weight	
Seq Number: 3057247								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.20.18 23.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.20.18 23.18	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.20.18 23.18	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.20.18 23.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.20.18 23.18		
o-Terphenyl		84-15-1	103	%	70-135	07.20.18 23.18		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:SW04Lab Sample Id:593076-003	Matrix:	Soil	Date Recei	ved:07.20.18 10.35
	Date Collecte	ed: 07.17.18 14.45	Sample De	pth:4 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057486	Date Prep:	07.24.18 08.00	Prep Metho % Moisture 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	07.24.18 14.54	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	07.24.18 14.54	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	07.24.18 14.54	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	07.24.18 14.54	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	07.24.18 14.54	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	07.24.18 14.54	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	07.24.18 14.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	88	%	70-130	07.24.18 14.54		
1,4-Difluorobenzene		540-36-3	106	%	70-130	07.24.18 14.54		





LT Environmental, Inc., Arvada, CO

PLU-400 H

Sample Id:SW05Lab Sample Id:593076-004		Matrix: Date Colle	Soil cted: 07.17.	18 15.00		Date Received:07 Sample Depth: 3.5		5
Analytical Method: Inorganic Anion: Tech: SCM	s by EPA 300					Prep Method: E3 % Moisture:	00P	
Analyst: SCM Seq Number: 3057921		Date Prep:	07.26.	18 12.00	Ε	Basis: We	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.6	4.96		mg/kg	07.26.18 15.04		1
Analytical Method: TPH by SW8015 Tech: ARM Analyst: ARM Seq Number: 3057247	5 Mod	Date Prep:	07.20.	18 14.00	9	Prep Method: TX % Moisture: Basis: Wo	X1005P et Weight	
Tech: ARM Analyst: ARM	5 Mod Cas Number	Date Prep: Result	07.20. RL	18 14.00	9	% Moisture:		Dil
Tech: ARM Analyst: ARM Seq Number: 3057247		-		18 14.00	9 E	Moisture: Basis: Wo	et Weight	Dil
Tech: ARM Analyst: ARM Seq Number: 3057247 Parameter	Cas Number	Result	RL	18 14.00	9 E Units	6 Moisture: Basis: Wo Analysis Date	et Weight	
Tech: ARM Analyst: ARM Seq Number: 3057247 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 14.9	18 14.00	9 E Units mg/kg	6 Moisture: Basis: Wo Analysis Date 07.20.18 23.38	et Weight Flag	1
Tech: ARM Analyst: ARM Seq Number: 3057247 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 16.4 <14.9	RL 14.9 14.9	18 14.00	9 E Units mg/kg mg/kg	 Moisture: Basis: Wo Analysis Date 07.20.18 23.38 07.20.18 23.38 	et Weight Flag U	1

94

%

70-135

07.20.18 23.38

84-15-1

o-Terphenyl





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:SW05Lab Sample Id:593076-004	Matrix: Soil Date Collected: 07.17.18 15.00	Date Received:07.20.18 10.35 Sample Depth: 3.5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057486	Date Prep: 07.24.18 08.00	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	07.24.18 15.15	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.24.18 15.15	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.24.18 15.15	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	07.24.18 15.15	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.24.18 15.15	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.24.18 15.15	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.24.18 15.15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	07.24.18 15.15		
1,4-Difluorobenzene		540-36-3	100	%	70-130	07.24.18 15.15		





LT Environmental, Inc., Arvada, CO

PLU-400 H

Sample Id:	SW06		Matrix:	Soil]	Date Received:07.	20.18 10.3	5
Lab Sample I	d: 593076-005		Date Coll	ected: 07.17.18 15.10	5	Sample Depth: 3.5	ft	
Analytical Me	ethod: Inorganic Anio	ns by EPA 300]	Prep Method: E30	00P	
Tech:	SCM				0	% Moisture:		
Analyst:	SCM		Date Prep	: 07.26.18 12.00]	Basis: We	t Weight	
Seq Number:	3057921							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	39.5	5.00	mg/kg	07.26.18 15.09		1

Analytical Method: TPH by SW8015 Mod					Prep Method: TX1005P			
Tech: ARM					% Moisture:			
Analyst: ARM		Date Pre	p: 07.20	.18 14.00	В	asis: We	t Weight	
Seq Number: 3057247		-						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.20.18 23.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.20.18 23.57	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.20.18 23.57	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.20.18 23.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.20.18 23.57		
o-Terphenyl		84-15-1	104	%	70-135	07.20.18 23.57		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:SW06Lab Sample Id:593076-005	Matrix: Soil Date Collected: 07.17.18 15.10	Date Received:07.20.18 10.35 Sample Depth: 3.5 ft			
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057486	Date Prep: 07.24.18 08.00	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	07.24.18 15.35	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.24.18 15.35	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.24.18 15.35	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.24.18 15.35	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.24.18 15.35	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.24.18 15.35	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.24.18 15.35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	07.24.18 15.35		
4-Bromofluorobenzene		460-00-4	88	%	70-130	07.24.18 15.35		




LT Environmental, Inc., Arvada, CO

Sample Id:	SW07		Matrix:	Soil		Date Received:07.2	20.18 10.3	5
Lab Sample I	d: 593076-006		Date Colle	ected: 07.17.18 15.30		Sample Depth: 4 ft		
Analytical M	ethod: Inorganic Anion	s by EPA 300				Prep Method: E30)0P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prepa	07.26.18 12.00		Basis: We	t Weight	
Seq Number:	3057921							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	76.7	4.95	mg/kg	07.26.18 15.14		1

Analytical Method: TPH by SW8015	5 Mod				F	Prep Method: TX	(1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 07.20	.18 14.00	E	Basis: We	et Weight	
Seq Number: 3057247								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 00.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 00.16	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 00.16	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 00.16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	07.21.18 00.16		
o-Terphenyl		84-15-1	101	%	70-135	07.21.18 00.16		





Sample Id:SW07Lab Sample Id:593076-006	Matrix: Soil Date Collected: 07.17.18 15.30	Date Received:07.20.18 10.35 Sample Depth: 4 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057486	Date Prep: 07.24.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	07.24.18 15.56	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	07.24.18 15.56	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	07.24.18 15.56	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	07.24.18 15.56	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	07.24.18 15.56	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	07.24.18 15.56	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	07.24.18 15.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	70-130	07.24.18 15.56		
1,4-Difluorobenzene		540-36-3	103	%	70-130	07.24.18 15.56		



Flagging Criteria



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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





QC Summary 593076

LT Environmental, Inc. PLU-400 H

Analytical Method:	Inorganic Anions h	oy EPA 300						Pre	ep Metho	1: E30	0P	
Seq Number:	3057921			Matrix:	Solid				Date Prep	p: 07.2	6.18	
MB Sample Id:	7659195-1-BLK		LCS Sar	nple Id:	7659195-1	I-BKS		LCSE	Sample	Id: 765	9195-1-BSD	
Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD F	RPD Limit	Units	Analysis	El
	Result	Amount	Result	%Rec	Result	%Rec					Date	Flag

Analytical Method:	Inorganic Anions b	y EPA 300						Pre	p Metho	d: E30	0P	
Seq Number:	3057921			Matrix:	Soil				Date Pre	p: 07.2	6.18	
Parent Sample Id:	593074-001		MS Sar	nple Id:	593074-00	01 S		MSD	Sample	Id: 593	074-001 SD	
Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD R	PD Limi	t Units	Analysis	Flag
	Result	Amount	Result	%Rec	Result	%Rec					Date	

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	od: E30	0P	
Seq Number:	3057921			Matrix:	Soil				Date Pr	ep: 07.2	6.18	
Parent Sample Id:	593074-011		MS Sar	nple Id:	593074-01	11 S		MS	D Sample	e Id: 593	074-011 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag

Analytical Method:	TPH by S	W8015 M	od						Р	rep Method	i: TX1	.005P	
Seq Number:	3057247				Matrix:	Solid				Date Prep	p: 07.2	0.18	
MB Sample Id:	7658836-1	-BLK		LCS Sar	nple Id:	7658836-	1-BKS		LCS	D Sample	Id: 7658	8836-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	952	95	942	94	70-135	1	20	mg/kg	07.20.18 18:04	
Diesel Range Organics	(DRO)	<15.0	1000	988	99	968	97	70-135	2	20	mg/kg	07.20.18 18:04	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		97		1	19		120		7	0-135	%	07.20.18 18:04	
o-Terphenyl		103		1	11		105		7	0-135	%	07.20.18 18:04	

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

.





LT Environmental, Inc. PLU-400 H

Analytical Method:	TPH by S	W8015 M	lod]	Prep Method	l: TX1	.005P	
Seq Number:	3057247				Matrix:	Soil				Date Prep	p: 07.2	0.18	
Parent Sample Id:	593071-00	1		MS San	nple Id:	593071-00	01 S		M	SD Sample	Id: 593	071-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	ORPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	98.1	999	1090	99	1100	100	70-135	1	20	mg/kg	07.20.18 19:04	
Diesel Range Organics	(DRO)	4660	999	6400	174	6480	182	70-135	1	20	mg/kg	07.20.18 19:04	Х
Surrogate					1S Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1-Chlorooctane				1	07		121		7	70-135	%	07.20.18 19:04	
o-Terphenyl				ç	95		101		7	70-135	%	07.20.18 19:04	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3057410 7658923-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 7658923-	1-BKS			Prep Methoe Date Prej SD Sample	p: 07.2	5030B 3.18 8923-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.106	105	0.100	100	70-130	6	35	mg/kg	07.23.18 23:40	
Toluene	< 0.00202	0.101	0.103	102	0.0959	96	70-130	7	35	mg/kg	07.23.18 23:40	
Ethylbenzene	< 0.00202	0.101	0.111	110	0.105	105	70-130	6	35	mg/kg	07.23.18 23:40	
m,p-Xylenes	< 0.00403	0.202	0.221	109	0.209	104	70-130	6	35	mg/kg	07.23.18 23:40	
o-Xylene	< 0.00202	0.101	0.108	107	0.102	102	70-130	6	35	mg/kg	07.23.18 23:40	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	108		1	09		109			70-130	%	07.23.18 23:40	
4-Bromofluorobenzene	86		8	31		82			70-130	%	07.23.18 23:40	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3057486 7658983-1-BLK	1B	LCS Sar	Matrix: nple Id:	Solid 7658983-	1-BKS			Prep Metho Date Pre CSD Sample	p: 07.2	5030B 4.18 8983-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	% RP	D RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.108	107	0.105	105	70-130	3	35	mg/kg	07.24.18 10:00	
Toluene	< 0.00202	0.101	0.108	107	0.104	104	70-130	4	35	mg/kg	07.24.18 10:00	
Ethylbenzene	< 0.00202	0.101	0.118	117	0.114	114	70-130	3	35	mg/kg	07.24.18 10:00	
m,p-Xylenes	< 0.00403	0.202	0.236	117	0.227	114	70-130	4	35	mg/kg	07.24.18 10:00	
o-Xylene	< 0.00202	0.101	0.115	114	0.111	111	70-130	4	35	mg/kg	07.24.18 10:00	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	107		1	07		105			70-130	%	07.24.18 10:00	
4-Bromofluorobenzene	85		8	35		87			70-130	%	07.24.18 10:00	

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

.

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LT Environmental, Inc. PLU-400 H

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3057410 593074-009	1B	MS San	Matrix: nple Id:		09 S			Prep Metho Date Pre SD Sample	p: 07.2	5030B 3.18 074-009 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	O RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.0821	83	0.0861	86	70-130	5	35	mg/kg	07.24.18 00:22	
Toluene	< 0.00199	0.0994	0.0790	79	0.0820	82	70-130	4	35	mg/kg	07.24.18 00:22	
Ethylbenzene	< 0.00199	0.0994	0.0855	86	0.0896	90	70-130	5	35	mg/kg	07.24.18 00:22	
m,p-Xylenes	< 0.00398	0.199	0.169	85	0.177	89	70-130	5	35	mg/kg	07.24.18 00:22	
o-Xylene	< 0.00199	0.0994	0.0833	84	0.0871	87	70-130	4	35	mg/kg	07.24.18 00:22	
Surrogate				1S Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	10		108			70-130	%	07.24.18 00:22	
4-Bromofluorobenzene			8	33		85		,	70-130	%	07.24.18 00:22	

Analytical Method:	BTEX by EPA 802	IB]	Prep Metho	d: SW:	5030B	
Seq Number:	3057486]	Matrix:	Soil				Date Pre	ep: 07.2	4.18	
Parent Sample Id:	593002-001		MS San	nple Id:	593002-00	01 S		M	SD Sample	Id: 593	002-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0801	80	0.0830	83	70-130	4	35	mg/kg	07.24.18 10:41	
Toluene	< 0.00200	0.100	0.0662	66	0.0729	73	70-130	10	35	mg/kg	07.24.18 10:41	Х
Ethylbenzene	< 0.00200	0.100	0.0568	57	0.0685	69	70-130	19	35	mg/kg	07.24.18 10:41	Х
m,p-Xylenes	< 0.00401	0.200	0.109	55	0.133	67	70-130	20	35	mg/kg	07.24.18 10:41	Х
o-Xylene	< 0.00200	0.100	0.0546	55	0.0656	66	70-130	18	35	mg/kg	07.24.18 10:41	Х
Surrogate				IS Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	08		110		7	70-130	%	07.24.18 10:41	
4-Bromofluorobenzene			8	35		82		5	70-130	%	07.24.18 10:41	

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

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Page 21 of 24

Midland, Texas (432-704-5251)	
VANAX XENCO_COM	Kenco Jab # Syncolog
	Analytical information Matrix Codes
oject Inf	
Hoolf	W = Water
50	
- Is bad, NWI wow	
7	
°A	OW =Ocean/Sea Water
Et	Wi = Wipe
CKK-CI4C	O = OII
H	
hanny bottom inci inci inci inci inci inci inci inc	
XXX	
XXX	
V IS30 V V KXX	
Data Deliverable Information	Notes:
Level II Std QC Level IV (Full Data Pkg /raw data)	
Level III Std QC+ Forms TRRP Level IV	
Level 3 (CLP Forms) UST / RG -411	
TRRP Checklist	
N N	FED-EX/UPS: Tracking # 7727 CAC OC NUA
	Time: 1016 15-20
Revelved By: Relinquished By:	Time:
Received By: 4 Custody Seal # Presen	Preserved where applicable on the Coder Topp. "Thypo. Corr. Factor
5	V OS V A
Sample Sample Depth Depth Si Si Si Si Si Si Si Si Si Si Si Si Si	PLU-HONH PLU-HONH PLU-HONH PLU-HONH Rectate Rectate Relinquished By: A By: NAME AND POSSIESSION, INALIDING CORRES DE Custody Seal #

Received by OCD: 2/24/2023 10:47:51 AM

Released to Imaging⁽³⁾2/24/2023 10:49:05 AM

Final 1.000

Page 79 of 131

LABORATORIES

CHAIN OF CUSTODY



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Received by OCD: 2/24/2023 10:47:51 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Date/ Time Received: 07/20/2018 10:35:00 AM Work Order #: 593076 Comments Sample Receipt Checklist .3 #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? 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)? N/A #18 Water VOC samples have zero headspace? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Button Teel

Date: 07/20/2018

Checklist reviewed by: Jessign Whamee

Jessica Kramer

Date: 07/20/2018

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

Temperature Measuring device used : R8

for LT Environmental, Inc.

Project Manager: Adrian Baker

PLU-400 H

27-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), 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 (T104704400-18-15) 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) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





27-JUL-18

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

Reference: XENCO Report No(s): **593074 PLU-400 H** Project Address: Carlsbad, 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) 593074. 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. 593074 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,

fession promer

Jessica Kramer Project Assistant

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

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





Sample Cross Reference 593074



LT Environmental, Inc., Arvada, CO

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW08	S	07-18-18 11:20	3.5 ft	593074-001
SW09	S	07-18-18 11:40	3.5 ft	593074-002
SW10	S	07-18-18 12:40	4 ft	593074-003
SW11	S	07-18-18 09:40	4 ft	593074-004
SW12	S	07-18-18 11:00	4.5 ft	593074-005
SW13	S	07-18-18 13:15	3.5 ft	593074-006
SW14	S	07-18-18 13:20	3 ft	593074-007
SW15	S	07-18-18 13:25	3 ft	593074-008
FS02	S	07-18-18 11:10	5.5 ft	593074-009
FS03	S	07-18-18 11:30	8 ft	593074-010
FS04	S	07-18-18 11:45	7 ft	593074-011
FS05	S	07-18-18 10:15	7.5 ft	593074-012
FS06	S	07-18-18 13:35	5.5 ft	593074-013
FS07	S	07-18-18 11:50	8.5 ft	593074-014



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU-400 H

Project ID: Work Order Number(s): 593074 Report Date: 27-JUL-18 Date Received: 07/20/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3057273 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3057410 BTEX by EPA 8021B

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





Project Id:Contact:Adrian BakerProject Location:Carlsbad, NM

Certificate of Analysis Summary 593074

LT Environmental, Inc., Arvada, CO Project Name: PLU-400 H



Date Received in Lab:Fri Jul-20-18 10:35 amReport Date:27-JUL-18Project Manager:Jessica Kramer

	Lab Id:	593074-0	001	593074-0	002	593074-0	003	593074-	004	593074-0	005	593074-0	006
	Field Id:	SW08		SW09		SW10		SW11		SW12		SW13	
Analysis Requested	Depth:	3.5- ft	-	3.5- ft		4- ft		4- ft		4.5- ft		3.5- ft	
	· · ·		-										
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL	,	SOIL	,
	Sampled:	Jul-18-18	11:20	Jul-18-18	11:40	Jul-18-18	12:40	Jul-18-18	09:40	Jul-18-18	11:00	Jul-18-18	13:15
BTEX by EPA 8021B	Extracted:	Jul-20-18	16:00	Jul-20-18	16:00	Jul-23-18 1	17:00	Jul-23-18	17:00	Jul-23-18	17:00	Jul-23-18	17:00
	Analyzed:	Jul-22-18	21:50	Jul-22-18 2	22:11	Jul-24-18 ()3:49	Jul-24-18	02:05	Jul-24-18 (02:26	Jul-24-18 (02:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200
m,p-Xylenes		< 0.00401	0.00401	< 0.00398	0.00398	< 0.00398	0.00398	< 0.00401	0.00401	< 0.00402	0.00402	< 0.00399	0.00399
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200
Total BTEX		< 0.00200	0.00200	<0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200
Inorganic Anions by EPA 300	Extracted:	Jul-26-18	12:00	Jul-26-18	12:00	Jul-26-18 1	12:00	Jul-26-18	12:00	Jul-26-18	12:00	Jul-26-18	12:00
	Analyzed:	Jul-26-18	12:49	Jul-26-18	13:05	Jul-26-18 1	13:10	Jul-26-18	13:16	Jul-26-18	13:21	Jul-26-18	13:37
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		108	4.95	155	4.95	<4.95	4.95	250	4.95	373	5.00	8.53	4.97
TPH by SW8015 Mod	Extracted:	Jul-20-18	16:00	Jul-20-18	16:00	Jul-20-18 1	16:00	Jul-20-18	16:00	Jul-20-18	16:00	Jul-20-18	16:00
	Analyzed:	Jul-21-18	03:50	Jul-21-18 (04:48	Jul-21-18 (05:08	Jul-21-18	05:28	Jul-21-18 (05:48	Jul-21-18 (06:07
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		<15.0	15.0	22.2	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total TPH		<15.0	15.0	22.2	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9

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

lession Vramer

Jessica Kramer Project Assistant

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Project Id:Contact:Adrian BakerProject Location:Carlsbad, NM



LT Environmental, Inc., Arvada, CO Project Name: PLU-400 H



Date Received in Lab:Fri Jul-20-18 10:35 amReport Date:27-JUL-18Project Manager:Jessica Kramer

		502074	007	502074	000	502074	000	502074	010	502074	011	502074	010
	Lab Id:	593074-0		593074-0		593074-0		593074-		593074-		593074-0	
Analysis Requested	Field Id:	SW14	+	SW15		FS02		FS03		FS04		FS05	
	Depth:	3- ft		3- ft		5.5- f	t	8- ft		7- ft		7.5- f	t
	Matrix:	SOIL	,	SOIL		SOIL	,	SOIL		SOIL	,	SOIL	
	Sampled:	Jul-18-18	13:20	Jul-18-18	3:25	Jul-18-18	11:10	Jul-18-18	11:30	Jul-18-18	11:45	Jul-18-18	10:15
BTEX by EPA 8021B	Extracted:	Jul-23-18	17:00	Jul-23-18 1	7:00	Jul-23-18	17:00	Jul-23-18	17:00	Jul-23-18	17:00	Jul-23-18	17:00
	Analyzed:	Jul-24-18	03:07	Jul-24-18 (3:28	Jul-24-18 (01:45	Jul-24-18	04:10	Jul-24-18	04:31	Jul-24-18 (06:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Toluene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Ethylbenzene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes		< 0.00397	0.00397	< 0.00403	0.00403	< 0.00402	0.00402	< 0.00402	0.00402	< 0.00399	0.00399	< 0.00401	0.00401
o-Xylene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Total Xylenes		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Total BTEX		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Inorganic Anions by EPA 300	Extracted:	Jul-26-18	12:00	Jul-26-18 1	2:00	Jul-26-18	12:00	Jul-26-18	12:00	Jul-26-18	12:00	Jul-26-18	12:00
	Analyzed:	Jul-26-18	13:43	Jul-26-18 1	3:48	Jul-26-18	13:53	Jul-26-18	13:59	Jul-26-18	14:04	Jul-26-18	14:20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		91.1	4.99	6.79	4.98	416	4.95	9.99	4.97	78.9	5.00	161	4.97
TPH by SW8015 Mod	Extracted:	Jul-20-18	16:00	Jul-20-18 1	6:00	Jul-20-18	16:00	Jul-20-18	16:00	Jul-20-18	16:00	Jul-20-18	16:00
	Analyzed:	Jul-21-18	06:27	Jul-21-18 (6:47	Jul-21-18 (07:07	Jul-21-18	07:26	Jul-21-18	08:26	Jul-21-18 (08:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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lession Vramer

Jessica Kramer Project Assistant

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Project Id:Contact:Adrian BakerProject Location:Carlsbad, NM



LT Environmental, Inc., Arvada, CO Project Name: PLU-400 H



Date Received in Lab: Fri Jul-20-18 10:35 am Report Date: 27-JUL-18 Project Manager: Jessica Kramer

	Lab Id:	593074-013	593074-014		
	Field Id:	FS06	FS07		
Analysis Requested	Depth:	5.5- ft	8.5- ft		
	Matrix:	SOIL	SOIL		
	Sampled:	Jul-18-18 13:35	Jul-18-18 11:50		
BTEX by EPA 8021B	Extracted:	Jul-23-18 17:00	Jul-23-18 17:00		
	Analyzed:	Jul-24-18 06:36	Jul-24-18 06:57		
	Units/RL:	mg/kg RL	mg/kg RL		
Benzene		<0.00201 0.00201	<0.00199 0.00199		
Toluene		<0.00201 0.00201	<0.00199 0.00199		
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199		
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398		
o-Xylene		<0.00201 0.00201	<0.00199 0.00199		
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199		
Total BTEX		<0.00201 0.00201	<0.00199 0.00199		
Inorganic Anions by EPA 300	Extracted:	Jul-26-18 12:00	Jul-26-18 12:00		
	Analyzed:	Jul-26-18 14:26	Jul-26-18 14:42		
	Units/RL:	mg/kg RL	mg/kg RL		
Chloride		52.4 4.99	6.79 4.96		
TPH by SW8015 Mod	Extracted:	Jul-20-18 16:00	Jul-20-18 16:00		
	Analyzed:	Jul-21-18 09:05	Jul-21-18 09:25		
	Units/RL:	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)	·	<15.0 15.0	<15.0 15.0		
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0		
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0		
Total TPH		<15.0 15.0	<15.0 15.0		

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

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Jessica Kramer Project Assistant





LT Environmental, Inc., Arvada, CO

Sample Id: SW08		Matrix:	Soil		Date Received:07.		5
Lab Sample Id: 593074-001		Date Collec	cted: 07.18.18 11.20		Sample Depth: 3.5	It	
Analytical Method: Inorganic Anic	ons by EPA 300				Prep Method: E30	00P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.26.18 12.00		Basis: We	t Weight	
Seq Number: 3057921							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	4.95	mg/kg	07.26.18 12.49		1
Analytical Method: TPH by SW80 Tech: ARM	15 Mod				Prep Method: TX % Moisture:	1005P	
Analyst: ARM		Date Prep:	07.20.18 16.00		Basis: We	t Weight	
Seq Number: 3057252							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.21.18 03.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.21.18 03.50	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.21.18 03.50	U	1
Total TPH	PHC635	<15.0	15.0				

TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 03.50	U	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.21.18 03.50		
o-Terphenyl		84-15-1	103	%	70-135	07.21.18 03.50		
	Surrogate	1-Chlorooctane	SurrogateCas Number1-Chlorooctane111-85-3	SurrogateCas Number% Recovery1-Chlorooctane111-85-399	SurrogateCas Number% RecoveryUnits1-Chlorooctane111-85-399%	Surrogate% Cas NumberUnitsLimits1-Chlorooctane111-85-399%70-135	Surrogate% Cas Number RecoveryUnitsLimitsAnalysis Date1-Chlorooctane111-85-399%70-13507.21.1803.50	Surrogate% Cas NumberUnitsLimitsAnalysis DateFlag1-Chlorooctane111-85-399%70-13507.21.1803.50





Sample Id:	SW08	Matrix:	Soil	Date Received	d:07.20.18 10.35
Lab Sample I	d: 593074-001	Date Collecte	d: 07.18.18 11.20	Sample Depth	n: 3.5 ft
Analytical Me	ethod: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.20.18 16.00	Basis:	Wet Weight
Seq Number:	3057273				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.22.18 21.50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.22.18 21.50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.22.18 21.50	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	07.22.18 21.50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.22.18 21.50	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.22.18 21.50	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.22.18 21.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	07.22.18 21.50		
1,4-Difluorobenzene		540-36-3	98	%	70-130	07.22.18 21.50		





LT Environmental, Inc., Arvada, CO

Sample Id:SW09Lab Sample Id:593074-002		Matrix: Date Collec	Soil eted: 07.18.18 11.40		Date Received:07. Sample Depth: 3.5		5
Analytical Method: Inorganic Anio	ns by EPA 300				Prep Method: E30	90P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.26.18 12.00		Basis: We	t Weight	
Seq Number: 3057921							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	155	4.95	mg/kg	07.26.18 13.05		1
Analytical Method: TPH by SW80	15 Mod				Prep Method: TX % Moisture:	1005P	
Tech: ARM	15 Mod	Date Prep.	07 20 18 16 00		% Moisture:		
	15 Mod	Date Prep:	07.20.18 16.00		% Moisture:	1005P et Weight	
Tech: ARM Analyst: ARM	15 Mod Cas Number	Date Prep: Result	07.20.18 16.00 RL		% Moisture:		Dil
Tech:ARMAnalyst:ARMSeq Number:3057252					% Moisture: Basis: We	et Weight	Dil
Tech: ARM Analyst: ARM Seq Number: 3057252 Parameter	Cas Number	Result	RL	Units	% Moisture: Basis: We Analysis Date	et Weight Flag	Dil 1

On Range Hydroearbons (ORO)	111002055	(14.)	14.7		III G/ KG	07.21.10 04.40	U	1	
Total TPH	PHC635	22.2	14.9		mg/kg	07.21.18 04.48		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	99	%	70-135	07.21.18 04.48			
o-Terphenyl		84-15-1	101	%	70-135	07.21.18 04.48			





Matrix:	Soil

Sample Id:SW09Lab Sample Id:593074-002	Matrix: Soil Date Collected: 07.18.18 11.40	Date Received:07.20.18 10.35 Sample Depth: 3.5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057273	Date Prep: 07.20.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	07.22.18 22.11	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	07.22.18 22.11	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	07.22.18 22.11	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	07.22.18 22.11	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	07.22.18 22.11	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	07.22.18 22.11	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	07.22.18 22.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	70-130	07.22.18 22.11		
1,4-Difluorobenzene		540-36-3	98	%	70-130	07.22.18 22.11		





LT Environmental, Inc., Arvada, CO

Sample Id: SW10			Matrix:	Soil]	Date Received:07.	20.18 10.3	5	
Lab Sample Id	Lab Sample Id: 593074-003			ected: 07.18.18 12.40	Sample Depth: 4 ft				
Analytical Me	ethod: Inorganic Anion	s by EPA 300]	Prep Method: E30	90P		
Tech:	SCM					% Moisture:			
Analyst:	SCM		Date Prep	: 07.26.18 12.00	i	Basis: We	t Weight		
Seq Number:	3057921								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	<4.95	4.95	mg/kg	07.26.18 13.10	U	1	

Analytical Method: TPH by SW801				P	Prep Method: TX	1005P		
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 07.20	.18 16.00	E	Basis: We	t Weight	
Seq Number: 3057252								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 05.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 05.08	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 05.08	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 05.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	07.21.18 05.08		
o-Terphenyl		84-15-1	103	%	70-135	07.21.18 05.08		





LT Environmental, Inc., Arvada, CO

Sample Id:	SW10	Matrix:	Soil	Date Recei	ved:07.20.18 10.35	
Lab Sample Id: 593074-003		Date Collecte	ed: 07.18.18 12.40	Sample Depth: 4 ft		
5	Method: BTEX by EPA 8021B			1	od: SW5030B	
Tech:	ALJ			% Moistur	e:	
Analyst:	ALJ	Date Prep:	07.23.18 17.00	Basis:	Wet Weight	
Seq Number	:: 3057410					

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	07.24.18 03.49	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	07.24.18 03.49	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	07.24.18 03.49	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	07.24.18 03.49	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	07.24.18 03.49	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	07.24.18 03.49	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	07.24.18 03.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	82	%	70-130	07.24.18 03.49		
1,4-Difluorobenzene		540-36-3	107	%	70-130	07.24.18 03.49		





LT Environmental, Inc., Arvada, CO

I I	Lab Sample Id: 593074-004		Matrix: Soil Date Collected: 07.18.18 09.40			Date Received:07.20.18 10.35 Sample Depth: 4 ft				
Tech: So Analyst: So	od: Inorganic Anions CM CM 057921	by EPA 300	Date Prep:	07.26.18 12.00		Prep Method: % Moisture: Basis:	E300P Wet Weight			
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil		
Chloride		16887-00-6	250	4.95	mg/kg	07.26.18 13	.16	1		
Tech: A	od: TPH by SW8015 I RM RM	Mod	Date Prep:	07.20.18 16.00		Prep Method: % Moisture: Basis:	TX1005P Wet Weight			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 05.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 05.28	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 05.28	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 05.28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.21.18 05.28		
o-Terphenyl		84-15-1	103	%	70-135	07.21.18 05.28		





LT Environmental, Inc., Arvada, CO

PLU-400 H	[
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Sample Id: SW11	Matrix: Soil	Date Received:07.20.18 10.35
Lab Sample Id: 593074-004	Date Collected: 07.18.18 09.40	Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: ALJ		% Moisture:
Analyst: ALJ	Date Prep: 07.23.18 17.00	Basis: Wet Weight
Seq Number: 3057410		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.24.18 02.05	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.24.18 02.05	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.24.18 02.05	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	07.24.18 02.05	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.24.18 02.05	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.24.18 02.05	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.24.18 02.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	07.24.18 02.05		
4-Bromofluorobenzene		460-00-4	89	%	70-130	07.24.18 02.05		





LT Environmental, Inc., Arvada, CO

Sample Id:	ample Id: SW12			Soil		Date Received:07.2	20.18 10.35	5
Lab Sample	Id: 593074-005		Date Collec	cted: 07.18.18 11.00		ft		
Analytical M	lethod: Inorganic Anion	s by EPA 300				Prep Method: E30	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	07.26.18 12.00		Basis: We	t Weight	
Seq Number	: 3057921							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	373	5.00	mg/kg	07.26.18 13.21		1
A 1 (* 11)	athod: TDH by SW201	5 M - J				Prop Mathod: TV	10050	

Analytical Method: TPH by SW801 Tech: ARM					rep Method: TX 6 Moisture:	.1005P		
Analyst: ARM		Date Pre	p: 07.20	18 16.00			et Weight	
Seq Number: 3057252								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 05.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 05.48	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 05.48	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 05.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.21.18 05.48		
o-Terphenyl		84-15-1	103	%	70-135	07.21.18 05.48		





Sample Id:SW12Lab Sample Id:593074-005	Matrix: Soil Date Collected: 07.18.18 11.00	Date Received:07.20.18 10.35 Sample Depth: 4.5 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst: ALJ Seq Number: 3057410	Date Prep: 07.23.18 17.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	07.24.18 02.26	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.24.18 02.26	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.24.18 02.26	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.24.18 02.26	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.24.18 02.26	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.24.18 02.26	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.24.18 02.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	89	%	70-130	07.24.18 02.26		
1,4-Difluorobenzene		540-36-3	109	%	70-130	07.24.18 02.26		





LT Environmental, Inc., Arvada, CO

Sample Id:	SW13		Matrix:	Soil		Date Received:07.2	20.18 10.35	5	
Lab Sample I	ld: 593074-006		Date Colle	cted: 07.18.18 13.15	Sample Depth: 3.5 ft				
Analytical M	ethod: Inorganic Anior	ns by EPA 300				Prep Method: E30	00P		
Tech:	SCM					% Moisture:			
Analyst:	SCM		Date Prep:	07.26.18 12.00		Basis: We	t Weight		
Seq Number:	3057921								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	8.53	4.97	mg/kg	07.26.18 13.37		1	

Analytical Method: TPH by SW801				P	Prep Method: T2	K1005P		
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 07.20.	18 16.00	E	Basis: W	et Weight	
Seq Number: 3057252			-					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	07.21.18 06.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	07.21.18 06.07	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	07.21.18 06.07	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	07.21.18 06.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.21.18 06.07		
o-Terphenyl		84-15-1	100	%	70-135	07.21.18 06.07		





Sample Id:SW13Lab Sample Id:593074-006	Matrix: Soil Date Collected: 07.18.18 13.15	Date Received:07.20.18 10.35 Sample Depth: 3.5 ft			
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	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	07.24.18 02.46	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.24.18 02.46	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.24.18 02.46	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	07.24.18 02.46	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.24.18 02.46	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.24.18 02.46	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.24.18 02.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	88	%	70-130	07.24.18 02.46		
1,4-Difluorobenzene		540-36-3	114	%	70-130	07.24.18 02.46		





LT Environmental, Inc., Arvada, CO

Sample Id:	SW14		Matrix:	Soil		Date Received:07.	20.18 10.3	5	
Lab Sample I	ld: 593074-007		Date Colle	ected: 07.18.18 13.20	Sample Depth: 3 ft				
Analytical M	ethod: Inorganic Anio	ns by EPA 300			:	Prep Method: E3	00P		
Tech:	SCM					% Moisture:			
Analyst:	SCM		Date Prep	: 07.26.18 12.00		Basis: We	et Weight		
Seq Number:	3057921								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	91.1	4.99	mg/kg	07.26.18 13.43		1	

Analytical Method: TPH by SW801:	5 Mod		Prep Method: TX1005P					
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 07.20	.18 16.00	E	Basis: We	t Weight	
Seq Number: 3057252								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 06.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 06.27	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 06.27	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 06.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	07.21.18 06.27		
o-Terphenyl		84-15-1	94	%	70-135	07.21.18 06.27		





Sample Id:SW14Lab Sample Id:593074-007	Matrix: Soil Date Collected: 07.18.18 13.20	Date Received:07.20.18 10.35 Sample Depth: 3 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	07.24.18 03.07	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	07.24.18 03.07	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	07.24.18 03.07	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	07.24.18 03.07	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	07.24.18 03.07	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	07.24.18 03.07	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	07.24.18 03.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	84	%	70-130	07.24.18 03.07		
1,4-Difluorobenzene		540-36-3	111	%	70-130	07.24.18 03.07		





LT Environmental, Inc., Arvada, CO

Sample Id:	SW15		Matrix:	Soil		Date Received:07.2	20.18 10.3	5
Lab Sample	Id: 593074-008		Date Colle	cted: 07.18.18 13.25		Sample Depth: 3 ft		
Analytical M	Iethod: Inorganic Anio	ns by EPA 300				Prep Method: E30	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	07.26.18 12.00		Basis: We	t Weight	
Seq Number	: 3057921							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	6.79	4.98	mg/kg	07.26.18 13.48		1

Analytical Method:TPH by SW801Tech:ARMAnalyst:ARMSeq Number:3057252	5 Mod	Date Pre	р: 07.20	.18 16.00	9/	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	07.21.18 06.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	07.21.18 06.47	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	07.21.18 06.47	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	07.21.18 06.47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	07.21.18 06.47		
o-Terphenyl		84-15-1	105	%	70-135	07.21.18 06.47		





Sample Id:SW15Lab Sample Id:593074-008	Matrix: Soil Date Collected: 07.18.18 13.25	Date Received:07.20.18 10.35 Sample Depth: 3 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	07.24.18 03.28	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	07.24.18 03.28	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	07.24.18 03.28	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	07.24.18 03.28	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	07.24.18 03.28	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	07.24.18 03.28	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	07.24.18 03.28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	07.24.18 03.28		
4-Bromofluorobenzene		460-00-4	81	%	70-130	07.24.18 03.28		





LT Environmental, Inc., Arvada, CO

	Matrix:	Soil	Date Received:07.20.18 10.35			5
	Date Collec	cted: 07.18.18 11.10		Sample Depth: 5.5	ft	
s by EPA 300				Prep Method: E30)0P	
				% Moisture:		
	Date Prep:	07.26.18 12.00		Basis: We	t Weight	
Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
16887-00-6	416	4.95	mg/kg	07.26.18 13.53		1
5 Mod				Prep Method: TX % Moisture:		
5 Mod	Date Prep:	07.20.18 16.00		% Moisture:	1005P t Weight	
5 Mod	Date Prep:	07.20.18 16.00		% Moisture:		
5 Mod Cas Number	Date Prep: Result	07.20.18 16.00 RL		% Moisture:		Dil
	·			% Moisture: Basis: We	t Weight	Dil
Cas Number	Result	RL	Units	% Moisture: Basis: We Analysis Date	t Weight Flag	
Cas Number PHC610	Result	RL 15.0	Units mg/kg	% Moisture: Basis: We Analysis Date 07.21.18 07.07	t Weight Flag U	Dil 1 1
-		as by EPA 300 Date Prep: Cas Number Result	Date Prep: 07.26.18 12.00 Cas Number Result RL	as by EPA 300 Date Prep: 07.26.18 12.00 Cas Number Result RL Units	As by EPA 300 Prep Method: E30 % Moisture: Date Prep: 07.26.18 12.00 Basis: We Cas Number Result RL Units Analysis Date	As by EPA 300 Prep Method: E300P % Moisture: Date Prep: 07.26.18 12.00 Basis: Wet Weight Cas Number Result RL Units Analysis Date Flag

		%				
Surrogate	Cas Number	Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	07.21.18 07.07	
o-Terphenyl	84-15-1	102	%	70-135	07.21.18 07.07	





P	U-	-4	0	0	Η

Sample Id: FS02	Matrix: Soil	Date Received:07.20.18 10.35
Lab Sample Id: 593074-009	Date Collected: 07.18.18 11.10	Sample Depth: 5.5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	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	07.24.18 01.45	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.24.18 01.45	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.24.18 01.45	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.24.18 01.45	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.24.18 01.45	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.24.18 01.45	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.24.18 01.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	86	%	70-130	07.24.18 01.45		
1,4-Difluorobenzene		540-36-3	110	%	70-130	07.24.18 01.45		





LT Environmental, Inc., Arvada, CO

Sample Id:	FS03		Matrix:	Soil		Date Received:07	.20.18 10.35	5
Lab Sample I	d: 593074-010		Date Collec	cted: 07.18.18 11.30		Sample Depth: 8	ft	
Analytical M	ethod: Inorganic Anion	is by EPA 300				Prep Method: E3	800P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	07.26.18 12.00		Basis: W	et Weight	
Seq Number:	3057921							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	9.99	4.97	mg/kg	07.26.18 13.59		1

				-					
Tech: ARM		% Moisture:							
Analyst: ARM	í		p: 07.20.	07.20.18 16.00		Basis: We		t Weight	
Seq Number: 3057252			-						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 07.26	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 07.26	U	1	
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 07.26	U	1	
Total TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 07.26	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	98	%	70-135	07.21.18 07.26	i		
o-Terphenyl		84-15-1	103	%	70-135	07.21.18 07.26	i		





Sample Id:FS03Lab Sample Id:593074-010	Matrix: Soil Date Collected: 07.18.18 11.30	Date Received:07.20.18 10.35 Sample Depth: 8 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	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	07.24.18 04.10	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.24.18 04.10	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.24.18 04.10	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.24.18 04.10	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.24.18 04.10	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.24.18 04.10	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.24.18 04.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	86	%	70-130	07.24.18 04.10		
1,4-Difluorobenzene		540-36-3	110	%	70-130	07.24.18 04.10		




LT Environmental, Inc., Arvada, CO

Sample Id: FS04		Matrix:	Soil		Date Received:07.2		5
Lab Sample Id: 593074-011		Date Collec	cted: 07.18.18 11.45	S	ample Depth: 7 ft		
Analytical Method: Inorganic Ani	ions by EPA 300			Р	rep Method: E30	00P	
Tech: SCM				%	6 Moisture:		
Analyst: SCM		Date Prep:	07.26.18 12.00	В	Basis: We	t Weight	
Seq Number: 3057921							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	78.9	5.00	mg/kg	07.26.18 14.04		1
Analytical Method: TPH by SW8	015 Mod			Р	rep Method: TX	1005P	
Tech: ARM				%	6 Moisture:		
Analyst: ARM		Date Prep:	07.20.18 16.00	В	asis: We	t Weight	
Seq Number: 3057252							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil

						e e	0	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 08.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 08.26	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 08.26	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 08.26	U	1
			%					
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	07.21.18 08.26		
o-Terphenyl		84-15-1	100	%	70-135	07.21.18 08.26		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id: FS04 Lab Sample Id: 593074-011	Matrix: Soil Date Collected: 07.18.18 11.45	Date Received:07.20.18 10.35 Sample Depth: 7 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.24.18 04.31	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.24.18 04.31	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.24.18 04.31	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	07.24.18 04.31	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.24.18 04.31	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.24.18 04.31	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.24.18 04.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	109	%	70-130	07.24.18 04.31		
4-Bromofluorobenzene		460-00-4	85	%	70-130	07.24.18 04.31		





LT Environmental, Inc., Arvada, CO

Sample Id: FS05 Lab Sample Id: 593074-012		Matrix: Date Collec	Soil cted: 07.18.18 10.15		Date Received:07.20.18 10.35 Sample Depth: 7.5 ft		
Analytical Method: Inorganic Anio	ns by EPA 300				Prep Method: E3	00P	
Tech: SCM			07 04 10 10 00		% Moisture:		
Analyst:SCMSeq Number:3057921		Date Prep:	07.26.18 12.00		Basis: We	et Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	161	4.97	mg/kg	07.26.18 14.20		1
Analytical Method: TPH by SW80	15 Mod				Prep Method: TX	1005P	
Tech: ARM					% Moisture:		
Analyst: ARM		Date Prep:	07.20.18 16.00		Basis: We	et Weight	
Seq Number: 3057252							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.21.18 08.46	U	1

0	isolille Range Hydroearbolis (ORO)	THEOTO	<15.0	15.0		111 <u>6</u> / K5	07.21.10 00.40	U	1	
Di	esel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 08.46	U	1	
Oi	l Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 08.46	U	1	
To	tal TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 08.46	U	1	
				%						
	Summarata		Can Marrish and		T T •4	T • • ·				
	Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag		
	1-Chlorooctane		111-85-3	Recovery 101	%	70-135	Analysis Date 07.21.18 08.46	Flag		
	8							Flag		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:FS05Lab Sample Id:593074-012	Matrix: Soil Date Collected: 07.18.18 10.15	Date Received:07.20.18 10.35 Sample Depth: 7.5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	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	07.24.18 06.15	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.24.18 06.15	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.24.18 06.15	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	07.24.18 06.15	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.24.18 06.15	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.24.18 06.15	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.24.18 06.15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	85	%	70-130	07.24.18 06.15		
1,4-Difluorobenzene		540-36-3	109	%	70-130	07.24.18 06.15		





LT Environmental, Inc., Arvada, CO

Sample Id:	ample Id: FS06			Soil	Date Received:07.20.18 10.35					
Lab Sample Id	d: 593074-013		Date Colle	cted: 07.18.18 13.35	Sample Depth: 5.5 ft					
Analytical Me	ethod: Inorganic Anion	s by EPA 300				Prep Method: E30	00P			
Tech:	SCM					% Moisture:				
Analyst:	SCM		Date Prep:	07.26.18 12.00		Basis: We	t Weight			
Seq Number:	3057921									
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Chloride		16887-00-6	52.4	4.99	mg/kg	07.26.18 14.26		1		

Analytical Method: TPH by SW801:	5 Mod				P	rep Method: TX	K1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 07.20	18 16.00	E	Basis: W	et Weight	
Seq Number: 3057252								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 09.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 09.05	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 09.05	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.21.18 09.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	07.21.18 09.05		
o-Terphenyl		84-15-1	98	%	70-135	07.21.18 09.05		





LT Environmental, Inc., Arvada, CO PLU-400 H

Sample Id:FS06Lab Sample Id:593074-013	Matrix: Soil Date Collected: 07.18.18 13.35	Date Received:07.20.18 10.35 Sample Depth: 5.5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	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	07.24.18 06.36	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.24.18 06.36	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.24.18 06.36	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.24.18 06.36	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.24.18 06.36	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.24.18 06.36	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.24.18 06.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	07.24.18 06.36		
4-Bromofluorobenzene		460-00-4	86	%	70-130	07.24.18 06.36		





LT Environmental, Inc., Arvada, CO

Sample Id:	FS07		Matrix:	Soil		Date Received:07.2	0.18 10.35		
Lab Sample I	d: 593074-014		Date Collec	ted: 07.18.18 11.50	Sample Depth: 8.5 ft				
Analytical M	ethod: Inorganic Anio	ns by EPA 300				Prep Method: E30	0P		
Tech:	SCM					% Moisture:			
Analyst:	SCM		Date Prep:	07.26.18 12.00		Basis: Wet	Weight		
Seq Number:	3057921								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag Di		
Chloride		16887-00-6	6.79	4.96	mg/kg	07.26.18 14.42	1		
Analytical M	ethod: TPH by SW801	5 Mod				Prep Method: TX1	005P		
Tech	ARM					% Moisture			

ARM					9	6 Moisture:		
ARM		Date Prep	p: 07.20	.18 16.00	E	Basis: W	et Weight	
3057252								
	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.21.18 09.25	U	1
ganics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.21.18 09.25	U	1
ocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.21.18 09.25	U	1
	PHC635	<15.0	15.0		mg/kg	07.21.18 09.25	U	1
:		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
ctane		111-85-3	101	%	70-135	07.21.18 09.25		
yl		84-15-1	106	%	70-135	07.21.18 09.25		
	ARM 3057252 Hydrocarbons (GRO) rganics (DRO) ocarbons (ORO)	ARM 3057252 Hydrocarbons (GRO) PHC610 ganics (DRO) C10C28DRO ocarbons (ORO) PHC62835 PHC635 ectane	ARM Date Prep 3057252 Cas Number Result Hydrocarbons (GRO) PHC610 <15.0	ARM 3057252 Date Prep: 07.20 Cas Number Result RL Hydrocarbons (GRO) PHC610 <15.0	ARM 3057252 Date Prep: 07.20.18 16.00 Cas Number Result RL Hydrocarbons (GRO) PHC610 <15.0	ARM 3057252 Date Prep: 07.20.18 16.00 E Cas Number Result RL Units Hydrocarbons (GRO) PHC610 <15.0	ARM 3057252 Date Prep: 07.20.18 16.00 Basis: Work Cas Number Result RL Units Analysis Date Hydrocarbons (GRO) PHC610 <15.0	ARM 3057252 Date Prep: 07.20.18 16.00 Basis: Wet Weight Cas Number Result RL Units Analysis Date Flag Hydrocarbons (GRO) PHC610 <15.0





LT Environmental, Inc., Arvada, CO F

PLU	-4()0	Η

Sample Id: FS07	Matrix: Soil	Date Received:07.20.18 10.35
Lab Sample Id: 593074-014	Date Collected: 07.18.18 11.50	Sample Depth: 8.5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3057410	Date Prep: 07.23.18 17.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	07.24.18 06.57	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	07.24.18 06.57	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	07.24.18 06.57	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	07.24.18 06.57	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	07.24.18 06.57	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	07.24.18 06.57	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	07.24.18 06.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	85	%	70-130	07.24.18 06.57		
1,4-Difluorobenzene		540-36-3	107	%	70-130	07.24.18 06.57		



LABORATORIES

Flagging Criteria



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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





LT Environmental, Inc. PLU-400 H

Analytical Method:	Inorganic Anions l	oy EPA 300						Pro	ep Metho	d: E30	0P	
Seq Number:	3057921			Matrix:	Solid				Date Pre	p: 07.2	26.18	
MB Sample Id:	7659195-1-BLK	LCS Sample Id: 7659195-1-BKS			LCSD Sample Id: 76				9195-1-BSD			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD I	RPD Limit	t Units	Analysis Date	Flag
	Ktsuit	Amount	Result	/once	Result	/once					Dute	

Analytical Method:	Inorganic Anions b	y EPA 300						Prep Method: E300P				
Seq Number:	3057921			Matrix:	Soil				Date Prep	p: 07.2	26.18	
Parent Sample Id:	593074-001		MS Sar	nple Id:	593074-00	01 S		MSE	Sample 3	Id: 593	074-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD I	RPD Limit	Units	Analysis Date	Flag
Chloride	108	248	361	102	360	102	90-110	0	20	mg/kg	07.26.18 12:54	

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Meth	od: E30	0P	
Seq Number:	3057921			Matrix:	Soil				Date Pr	ep: 07.2	6.18	
Parent Sample Id:	593074-011		MS Sar	nple Id:	593074-01	1 S		MS	D Sample	e Id: 593	074-011 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	78.9	250	335	102	334	102	90-110	0	20	mg/kg	07.26.18 14:10	

Analytical Method:	TPH by S	W8015 M	od				Prep Method: TX1005P						
Seq Number:	3057252				Matrix:	Solid		Date Prep: 07.20.18					
MB Sample Id:	1					7658837-	1-BKS	LCSD Sample Id: 7658837-1-BSD					
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	967	97	987	99	70-135	2	20	mg/kg	07.21.18 03:10	
Diesel Range Organics	(DRO)	<15.0	1000	964	96	994	99	70-135	3	20	mg/kg	07.21.18 03:10	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		101		1	24		124		7	0-135	%	07.21.18 03:10	
o-Terphenyl		106		1	12		120		7	0-135	%	07.21.18 03:10	

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

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LT Environmental, Inc. PLU-400 H

Analytical Method:	TPH by S	W8015 M	lod						F	rep Method	l: TX1	.005P	
Seq Number:	3057252				Matrix:	Soil				Date Prep	p: 07.2	0.18	
Parent Sample Id:		MS Sample Id: 593074-001 S			MSD Sample Id: 593074-001 SD								
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	999	994	99	989	99	70-135	1	20	mg/kg	07.21.18 04:09	
Diesel Range Organics	(DRO)	<15.0	999	1010	101	1000	100	70-135	1	20	mg/kg	07.21.18 04:09	
Surrogate					1S Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				122			121		7	0-135	%	07.21.18 04:09	
o-Terphenyl				114 113			113 70-135 % 07.21.18 04:09						

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3057273 7658865-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 7658865-	1-BKS		Prep Method: SW5030B Date Prep: 07.20.18 LCSD Sample Id: 7658865-1-BSD				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0968	96	0.0981	98	70-130	1	35	mg/kg	07.22.18 12:49	
Toluene	< 0.00202	0.101	0.105	104	0.105	105	70-130	0	35	mg/kg	07.22.18 12:49	
Ethylbenzene	< 0.00202	0.101	0.101	100	0.101	101	70-130	0	35	mg/kg	07.22.18 12:49	
m,p-Xylenes	< 0.00403	0.202	0.201	100	0.200	100	70-130	0	35	mg/kg	07.22.18 12:49	
o-Xylene	< 0.00202	0.101	0.0990	98	0.0970	97	70-130	2	35	mg/kg	07.22.18 12:49	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	98		9	95		99			70-130	%	07.22.18 12:49	
4-Bromofluorobenzene	99		9	98		100			70-130	%	07.22.18 12:49	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3057410 7658923-1-BLK	1B	LCS San	Matrix: nple Id:		1-BKS			Prep Metho Date Pre SD Sample	p: 07.2	5030B 23.18 8923-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.106	105	0.100	100	70-130	6	35	mg/kg	07.23.18 23:40	
Toluene	< 0.00202	0.101	0.103	102	0.0959	96	70-130	7	35	mg/kg	07.23.18 23:40	
Ethylbenzene	< 0.00202	0.101	0.111	110	0.105	105	70-130	6	35	mg/kg	07.23.18 23:40	
m,p-Xylenes	< 0.00403	0.202	0.221	109	0.209	104	70-130	6	35	mg/kg	07.23.18 23:40	
o-Xylene	< 0.00202	0.101	0.108	107	0.102	102	70-130	6	35	mg/kg	07.23.18 23:40	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	108		1	09		109			70-130	%	07.23.18 23:40	
4-Bromofluorobenzene	86		8	31		82			70-130	%	07.23.18 23:40	

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

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LT Environmental, Inc. PLU-400 H

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3057273 593036-002	1B	MS San	Matrix: nple Id:	Soil 593036-00	02 S			Prep Metho Date Pre SD Sample	p: 07.2	5030B 0.18)36-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0302	30	0.0336	34	70-130	11	35	mg/kg	07.22.18 13:30	Х
Toluene	< 0.00199	0.0996	0.0318	32	0.0303	30	70-130	5	35	mg/kg	07.22.18 13:30	Х
Ethylbenzene	< 0.00199	0.0996	0.0302	30	0.0265	27	70-130	13	35	mg/kg	07.22.18 13:30	Х
m,p-Xylenes	< 0.00398	0.199	0.0602	30	0.0513	26	70-130	16	35	mg/kg	07.22.18 13:30	Х
o-Xylene	< 0.00199	0.0996	0.0329	33	0.0285	29	70-130	14	35	mg/kg	07.22.18 13:30	Х
Surrogate				1S Rec	MS Flag	MSD %Rec		_	Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		98		7	0-130	%	07.22.18 13:30	
4-Bromofluorobenzene			1	06		106		7	0-130	%	07.22.18 13:30	

Analytical Method:	BTEX by EPA 802	1B]	Prep Metho	l: SW:	5030B	
Seq Number:	3057410]	Matrix:	Soil				Date Prep	p: 07.2	3.18	
Parent Sample Id:	593074-009		MS San	nple Id:	593074-00	09 S		М	SD Sample	Id: 593)74-009 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.0821	83	0.0861	86	70-130	5	35	mg/kg	07.24.18 00:22	
Toluene	< 0.00199	0.0994	0.0790	79	0.0820	82	70-130	4	35	mg/kg	07.24.18 00:22	
Ethylbenzene	< 0.00199	0.0994	0.0855	86	0.0896	90	70-130	5	35	mg/kg	07.24.18 00:22	
m,p-Xylenes	< 0.00398	0.199	0.169	85	0.177	89	70-130	5	35	mg/kg	07.24.18 00:22	
o-Xylene	< 0.00199	0.0994	0.0833	84	0.0871	87	70-130	4	35	mg/kg	07.24.18 00:22	
Surrogate				1S Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	10		108		,	70-130	%	07.24.18 00:22	
4-Bromofluorobenzene			8	33		85		,	70-130	%	07.24.18 00:22	

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

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Stafford, Texas (281-240-4200)	San Antonio, Texas (210-509-3334)	Dhoppin Ariyona (180 355 0000)
Dallas Texas (214-902-0300)	Midland, Texas (432-704-5251)	
	WWW.Xenco.com	Xenco Quote # Xenco Job # A A A A
		Analytical Information Matrix Codes
Client / Reporting information	Project Information	5
Company Name / Branch: LT Environmental, Inc Permian Office	Project Name/Number: PLU - 400H	W=Water
Company Address:	Project Location:	
3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705		30
Email: Phone No:	Involce To:	Pŀ
Abaker@ltenv.com (432) 704-5178	vi o civerĝy - nýte ruttell	
Adrian Baker		
Samplers's Name Ben Gelill		
	Collection Number of preserved bottles	A=Ar
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2 5005	3,51 140 1 1 2,52	XXX
3 5210	4/ 1243	XXXX
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iumarouno ilme i susiness days)	Data Deliverable Information	Notes:
Same Day TAT X 5 Day TAT	Level II Std QC Level IV (Full Data Pkg /raw data)	Pkg /raw data)
Noxt Day EMERGENCY	Level III Std QC+ Forms TRRP Level IV	
2 Day EMERGENCY	Level 3 (CLP Forms) UST / RG -411	
	TRRP Checklist	
IA I Starts Day received by Lab, if received by 5:00 pm SAMPLE CUSTODY MUST BE	BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE BOSSESSING MICH INNA A	
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serverse insures or this userverse in the constitutes and remispheric transpersions constitutes of expenses incurred by the Client if such loses are due to circumstances beyond will be enforced unless previously negotiated under a fully executed client contract.	a valiid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns stand ond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will t	where a subsection of the underland remisted of the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples and shall not assume any responsibility for any will be enforced unless previously negotiated under a fully executed by Xenco but not analyzed will be immediated to the cost of samples. Any samples received by Xenco but not analyzed will be immediated to the cost of samples and shall not assume any responsibility for any will be enforced unless previously negotiated under a fully executed client contract.

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5 Voltor: Notice: Signature of this document and relino osses or expenses incurred by the Crient if such tos will be enforced unless previously negotiated under a	3 Relinguished by:	1 Relinquished by:	Relinquished by Sampler: SAMPLE CUSTOPY MUST	TAT Starts Day received by I	- 2 Day EMERGENCY		Same Day TAT		10 Turnaround Time (Business days)	9	8	7	0	5	4	ω	2			No. Field ID / Point of Collection	Samplers's Name Sch Sel	Adrian Baker	Abaker@itenv.com	Email: Phone No:	3300 North "A" Street, Building 1, Un	LT Environmental, Inc Permian Office Company Address:	Company Name / Branch:	Client / Reporting Information		Dailas Texas (214-902-0300)	Stafford,Texas (281-240-4200)	Setting the Standard since 1990	
ushment of samples constitutes is are due to circumstances beyw fully executed client contract.		2000	SAMPLE CUSTODY N		Contract TAT	7 Day TAT	S Day TAT	7								-	FSOS	FSOY		Collection	H		(432) 704-5178	Phone No:	lt #103, Midland, TX 797	ce							σ
Uate IIme: Received By: Custo s a valid purchase order from client company to Xenco. Its affiliates and subcontractors eyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xer	Serve James Reling	The ince is a way of the second by: Will a second by the s	T MUST BE DOCUMENTED BELOW EACH TIMESAMPLES CHANGE POSSESSION	TRRP Checklist	Level 3 (CLP Forms) UST	Level III Std QC+ Forms TRR	Level II Std QC	Data Deliverable Information									5101	1/8/8/145 S 1 8/8/7	Depth Date Time Matrix bottes of Accetate (NO3)	Collection Number of pres	2 RP-2142	PO Number:	XTO Energy - Kyle Littrell	Invoice To:		Project I acadom PLU 400/t	Project Information		W/W/ Xenco.com	Midland, Texas (432-704-5251)	San Antonio, Texas (210-509-3334)	Page Z or Z	CHAIN OF CUSTODY
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Midta	nd, Texas (432-704-5251)		COURS, DEFECTION (TOC-DOC-VODA)	してく
ne waard waar waar waard w	www.xenco.com	Xen		
			Analytical Information	Matrix Codes
a na antar m	Project Information	20	5	
Project	RLU-		015	W = Water
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TAT	Level III Std QC+ Forms	TRRP Level IV		
ract TAT	Level 3 (CLP Forms)	UST/ RG -411		
	TRRP Checklist			
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Date Time:	Received By:	Custody Seal #	Preserved where applicable	On la Cooler Tymp. They o. Corr. Factor
mples constitutes a valid purchase o	for from client company to Xenco, its affiliates a	Ind subcontractors. It assigns standard terms a	and conditions of service Xenco will be lia	0-0 M C.O M
curnstances beyond the control of X client contract.	enco. A minimum charge of \$75 will be applied t	o each project. Xenco's liability will be limited to	o the cost of samples. Any samples receiv o	i una consuma or service, reinus win be nable only tor⊓ne cost or semples and shall not assume any responsibility for any to the cost of samples. Any samples received by Xenco but not analyzed will be involced at S5 per sample. These terms
	Stafford, Texas (281-240-4200) San /	San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5281) WWW.X8000.001 Project Incention Project Incentin Project Incention Project Incention Project I	San Antonio, Texas (210-509-334) Midland, Texas (432-704-5281) INVIX./ERIOD.COM Project NumeNine Project NumNine Project NumNi	San Antonio, Texas (210-509-334) Midland, Texas (432-704-5281) INVIX./ERIOD.COM Project NumeNine Project NumNine Project NumNi

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Final 1.000

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LABURATURIES

CHAIN OF CUSTODY

Setting the Standard since 1990 Stafford,Texas (281-240-4200)		San Antonio, Texas (210,509,3334)		
Dallas Texas (214-902-0300)		Midland, Texas (432-704-5251)	Phoenix, Arizona (480-355-0900)	0-355-0900)
		WANX XENCO.COM	Xenco Quote #	Xanco Job # 50 Km
			Analytica	Analytical Information Matrix Codee
Client / Reporting Information		Project Information	T	
Company Name / Branch: LT Environmental, Inc Permian Office		Project Name/Number: PLU LISO/+	20	W = Water
Company Address:		1		GW = Ground Water DW = Drinking Water
Email: Phone No:		Invoice To:	4	
som	432) 704-5178	XTO Energy - Kyle Littrell	°PA	
Adrian Baker				
Samplers's Name (Sr A (- 1)		2 RP-2142	k	O = OII WW≖ Waste Water
		2	There of preserved bottoms	A = AIr
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Iurnaroung lime (Business days)		Data Deliverable Information		Notes:
Same Day TAT	🔏 5 Day TAT	Level II Std QC	Level IV (Full Data Pkg /raw data)	
Next Day EMERGENCY	7 Day TAT	Level III Std QC+ Forms	TRRP Level IV	
2 Day EMERGENCY	Contract TAT	Level 3 (CLP Forms)	UST/RG -411	
3 Day EMERGENCY		TRRP Checklist	>	
vived by Lab, if re	ived by 5:00 pm	2		FED-EX/UPS: Tracking # THIS & BACKA
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Relinquished by:	Date Time:	تح د	Date Time:	Received by:
S	Date Time:	Received By:	ustody Seal #	applicable On Ice Cooler Jamp. Thegmo. Corr. Factor
Volice: Nolice: 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 osses or expenses incurred by the Client if such toses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited will be enforced unless previously negotiated under a fully executed client contract.	samples constitutes a valid purc circumstances beyond the cont ad client contract.	sase order from client company to Xenco. its affiliates and sub lase order from client company to Xenco. Its affiliates and sub ol of Xenco. A minimum charge of \$75 will be applied to each i	conflactors. It assigns standard terms and conditions of service. project. Xenco's liability will be limited to the cost of samples. An	and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any to the cost of samples. Any samples received by Xenco but not analyzed will be involced at S5 per sample. These terms

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CHAIN OF CUSTODY

Received by OCD: 2/24/2023 10:47:51 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 07/20/2018 10:35:00 AM Temperature Measuring device used : R8 Work Order #: 593074 Comments Sample Receipt Checklist .3 #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? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes

#16 All samples received within hold time? #17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

#15 Sufficient sample amount for indicated test(s)?

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

Analyst:

PH Device/Lot#:

Checklist completed by: Button Teel

Date: 07/20/2018

Yes

Yes

N/A

N/A

Checklist reviewed by: Jessica Warner

Jessica Kramer

Date: 07/20/2018

Received by OCD: 2/24/2023 10:47:51 AM









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	190384
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
bhall	None	2/24/2023

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Action 190384

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