LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 103 Midland, Texas 79705 432.704.5178

Advancing Opportunity

January 8, 2020

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

RE: Closure Request JRU DI #1 127H/169H Remediation Permit Number 2RP-4826 Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the JRU DI #1 127H/169H (Site), located in Unit G, Section 21, Township 22 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a release of crude oil within lined containment at the Site.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the New Mexico Oil Conservation Division (NMOCD) effective November 13, 2018. The purpose of the Compliance Agreement is to ensure 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 the release occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation was ongoing. Based on the laboratory analytical results for soil samples collected at the Site, XTO is submitting this Closure Request, describing site assessment activities that have occurred and requesting no further action for the release event.

RELEASE BACKGROUND

On June 4, 2018, a drilling contractor was transferring oil from the primary hydraulic fracturing (frac) tanks to secondary frac tanks. One tank overfilled and released approximately 15 barrels (bbls) of oil into the lined containment surrounding the secondary frac tanks. A vacuum recovered all 15 bbls of free-standing oil from within the containment. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on June 19, 2018, and was assigned Remediation Permit (RP) Number 2RP-4826 (Attachment 1).





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SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is NM OSE well 03015, located approximately 5,035 feet southeast of the Site. The water well has a depth to groundwater of 262 feet and a total depth of 1,316 feet. Ground surface elevation at the water well location is 3,286 feet above mean sea level (AMSL), which is approximately 126 feet higher in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is a tributary located approximately 195 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a high-potential karst area.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg);
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg;
- Total petroleum hydrocarbons (TPH): 100 mg/kg; and
- Chloride: 600 mg/kg.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On June 3, 2019, LTE personnel inspected the Site to evaluate the release area. The frac tanks and lined containment were removed and no visible signs of the release were identified. Five preliminary soil samples (SS01 through SS05) were collected within and around the former frac tank release area to assess for potential soil impacts. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and the documented release location. To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, the soil samples were collected from each sample location from a depth of 0.5 feet bgs.

On June 24, 2019, LTE personnel returned to the Site to collect vertical delineation soil samples via hand auger to confirm the absence of impacted soil in the release area. Soil samples SS01A through SS05A were collected from a depth of 1 foot bgs at the SS01 through SS05 preliminary soil sample locations. Soil was field screened for volatile aromatic hydrocarbons and chloride





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utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for each sample location were logged on lithologic/soil sampling logs, which are included in Attachment 2. The soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 3.

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

ANALYTICAL RESULTS

Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in soil samples SS01/SS01A through SS05/SS05A. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and soil sampling activities were conducted to assess for potential soil impacts resulting from the June 4, 2018, crude oil release at the Site. Laboratory analytical results for soil samples SS01/SS01A through SS05/SS05A, collected from depths ranging from 0.5 feet to 1 foot bgs, indicated that BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required.

The released fluids were contained within lined containment and all released fluids were recovered during initial response activities. Based on visual observations, field screening, and laboratory analytical results, no impacted soil was identified as a result of the release. XTO requests no further action for RP Number 2RP-4826. An updated NMOCD Form C-141 is included as Attachment 1.

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

Sincerely,

LT ENVIRONMENTAL, INC.





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Sinée Cole

Aimee Cole **Project Environmental Scientist**

Ashley L. Ager, P.G.

Senior Geologist

cc: Kyle Littrell, XTO Mike Bratcher, NMOCD Bureau of Land Management

Attachments:

Figure 1	Site Location Map
i igui e I	Site Location Map

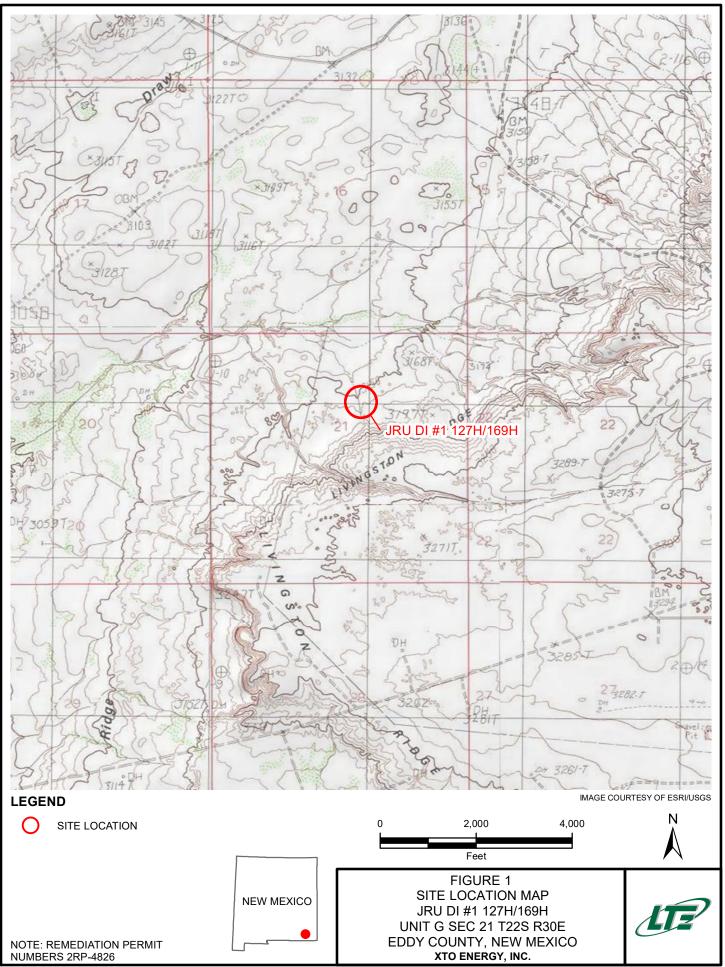
- Figure 2 Soil Sample Locations
- Table 1 Soil Analytical Results
- Attachment 1 Initial/Final NMOCD Form C-141 (2RP-4826)
- Attachment 2 Lithologic/Soil Sample Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports



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FIGURES





P:\XTO Energy\GIS\MXD\012919121_JRU DI #1 127H-169H\012919121_FIG01_SL_4826.mxd



IMAGE COURTESY OF ESRI LEGEND Ν 100 200 X RELEASE LOCATION SOIL SAMPLE IN COMPLIANCE Feet WITH APPLICABLE CLOSURE CRITERIA FIGURE 2 SOIL SAMPLE LOCATIONS JRU DI #1 127H/169H UNIT G SEC 21 T22S R30E EDDY COUNTY, NEW MEXICO SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET) NOTE: REMEDIATION PERMIT NUMBER 2RP-4826 **XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012919121_JRU DI #1 127H-169H\012919121_FIG02_DELINEATION_4826.mxd

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TABLES



TABLE 1 SOIL ANALYTICAL RESULTS

JRU DI #1 127H/169H REMEDIATION PERMIT NUMBER 2RP-4826 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0.5	06/03/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	73.6
SS01A	1	06/24/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<14.9	29.3	<14.9	29.3	29.3	5.36
SS02	0.5	06/03/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	122
SS02A	1	06/24/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	41.8	<15.0	41.8	41.8	24.8
SS03	0.5	06/03/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	129
SS03A	1	06/24/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	16.4
SS04	0.5	06/03/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	29.3	<15.0	29.3	29.3	316
SS04A	1	06/24/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	26.8	<15.0	26.8	26.8	8.06
SS05	0.5	06/03/2019	<0.00200	<0.00200	<0.00200	0.00202	0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	396
SS05A	1	06/24/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	85.5
NMOCD Table	e 1 Closure Cri	teria	10	NE	NE	NE	50	NE	NE	NE	NE	100	600

Notes:

- bgs below ground surface
- BTEX benzene, toluene, ethylbenzene, and total xylenes
- DRO diesel range organics
- GRO gasoline range organics
- mg/kg milligrams per kilogram

ORO - motor oil range organics NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division NE - not established Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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



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eceived by OCD: 2/21/2020 9:28:51 AM		RECEIVED	Page 1			
1625 N. French Dr., Hobbs, NM 88240 Energy Mineral District III Energy Mineral 811 S. First St., Artesia, NM 88210 Oil Conse District III 001 Conse 1000 Rio Brazos Road, Aztec, NM 87410 1220 Sou	f New Mexico s and Natural Resources ervation Division th St. Francis Dr.	JUN 1 9 2 Submit I Copy I RICT II-ARTES	018 Form C-141 Revised April 3, 2017 o appropriate District Office in NA OCC. Dith 19.15.29 NMAC.			
1220 S. St. Francis Dr., Santa Fc, NM 87505 Santa	Fe, NM 87505					
	on and Corrective Act	ion				
NAB1817350327 1000	OPERATOR	🛛 Initial	Report Final Report			
Name of Company: XTO Energy (1997) Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Contact: Amy C. Ruth Telephone No: 575-689-3380					
Facility Name: JRU DI#1 127H/169H (API for JRU DI1 #169H)	Facility Type: Exploration an					
Surface Owner: Federal Mineral Owner	Federal	API No:	30-015-42628			
LOCATIO	ON OF RELEASE	·····				
Unit Letter Section Township Range Feet from the North	h/South Line Fect from the E		County			
G 21 22S 30E 1440 Nor			Eddy			
Latitude32.380971° L	ongitude103.885619°	NAD83				
Type of Release Crude Oil	E OF RELEASE	N.1	covered 15 bbls			
	Volume of Release 15 bols	volume Re	covered 15 bois			
Source of Release Frac Tank	Date and Hour of Occurrence 6/4/2018 10 am	Date and H 6/4/2018 1	our of Discovery 0 am			
Was Immediate Notice Given?	If YES, To Whom?					
By Whom? N/A	d N/A Date and Hour: N/Λ					
Was a Watercourse Reached?	If YES, Volume Impacting the	Watercourse.				
	N/A					
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Taken.*						
A contract employee was transferring oil from the primary frac tanks in containment.	to the secondary frac tank farm. One	c tank overfilled	and oil was released to lined			
Describe Area Affected and Cleanup Action Taken.* The release affected the lined containment surrounding the secondary fr	ac tank farm. Free standing oil was	recovered.				
	5					
			NH (000 1 1			
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release	notifications and perform corrective	c actions for relea	ises which may endanger			
public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedi	ate contamination that pose a threat	to ground water,	surface water, human health			
or the environment. In addition NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	does not relieve the operator of resp	ponsibility for con	mpliance with any other			
OIL CONSERVATION DIVISION						
Signapure:		Al y	<u>9</u>			
Printed Name: Amy C. Ruth	Approved by Environmental Spec	Hallist Duran	Bell A			
Title: Environmental Coordinator	Approval Date: 42218	Expiration D	Date: N/A			
	Conditions of Approval: See Uttac	had	Attached 2RP-4826			
Date: 6/19/2018 Phone: 575-689-3380	Jeowind		- TOR			

6/19/2018 Phone: 575-689-3380 Date: * Attach Additional Sheets If Necessary

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	
Facility ID	2RP-4826
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-4826		
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220			

Location of Release Source

Latitude N 32.380971

Longitude W -103.885619 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: JRU DI #1 127H/169H	Site Type: Production Well Facility
Date Release Discovered: 6/4/2018	API# (if applicable): 30-015-42628

ſ	Unit Letter	Section	Township	Range	County
	G	21	22S	30E	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): 15 Volume Recovered (bbls): 15 Produced Water Volume Released (bbls): Volume Recovered (bbls): 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) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)

Cause of Release

A drilling contractor was transferring oil from the primary frac tanks to secondary frac tanks. One tank overfilled and released approximately 15 bbls of oil into the lined containment surrounding the secondary frac tanks. A vacuum recovered all 15 bbls of free-standing oil from the containment.

C-141	20 9:28:51 AM State of New Mexico Oil Conservation Division	Incident ID		Page 13 o
		District RP		
		Facility ID	2RP-4826	
		Application ID		
15.29.7(A) NMAC? Yes ⊠ No				
'ES, was immediate no	otice given to the OCD? By whom? To whom? NA			

Initial Response

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

 \boxtimes 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: N/A

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:Kyle Littrell	Title: <u>SH&E Supervisor</u>
Signature:	Date: <u>1-8-2020</u>
email: <u>Kyle Littrell@xtoenergy.com</u> Tel	lephone:432-221-7331
OCD Only	
Received by:	Date:

Received by OCD: 2/21/2020 9:28:51 AM Form C-141 State of New Mexico

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	2RP-4826
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<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
- \square 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.

Received by OCD: 2/21/	2020 9:28:51 AM State of New M	lexico		Page 15 of 68
			Incident ID	
Page 4	Oil Conservation	Division	District RP	
			Facility ID	2RP-4826
			Application ID	
regulations all operators public health or the envir failed to adequately inve- addition, OCD acceptanc and/or regulations. Printed Name: Signature: email:Kyle_L	nformation given above is true and cor are required to report and/or file certain conment. The acceptance of a C-141 re stigate and remediate contamination th the of a C-141 report does not relieve the <u>Kyle Littrell</u> <u>Man Manuff</u> <u>ittrell@xtoenergy.com</u>	n release notifications and perform eport by the OCD does not relieve t at pose a threat to groundwater, sur e operator of responsibility for com 	corrective actions for rel he operator of liability sh face water, human health pliance with any other fe Supervisor	eases which may endanger nould their operations have n or the environment. In ederal, state, or local laws
OCD Only Received by:		Date:		

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Oil Conservation Division

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Incident ID	nAB1817350327	
District RP		
Facility ID	2RP-4826	
Application ID		

Closure

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

Closure Report Attachment Checklist: Each of the following i	tems must be included in the	closure report.
\boxtimes A scaled site and sampling diagram as described in 19.15.29.	1 NMAC	
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applic	cable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notif	ied 2 days prior to final sampling)
Description of remediation activities		
I hereby certify that the information given above is true and complet 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 ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O	n release notifications and per a C-141 report by the OCD of nediate contamination that por a C-141 report does not reliev tions. The responsible party nditions that existed prior to t	form corrective actions for releases which loes not relieve the operator of liability use a threat to groundwater, surface water, we the operator of responsibility for acknowledges they must substantially he release or their final land use in
Printed Name:Kyle Littrell	Title: <u>SH&E Super</u>	visor
Signature:	Date: <u>1-8-2020</u>	
email:Kyle_Littrell@xtoenergy.com	Telephone:432-22	1-7331
OCD Only		
Received by: Bradford Billings	Date:	
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	water, human health, or the en	vironment nor does not relieve the responsible
Closure Approved by: Bradford Billing	Date: 02/01/202	21
Printed Name: Bradford Billings	Title:	E.Spec.A

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LT Environmental, Inc.	508 We Carlsbad,	ironmental, Inc. st Stevens Street New Mexico 88220 Engineering · Remediation L SAMPLING LOG Field Screening:	Identifier: SSO Date: 06/24/19 Project Name: JRU DI #1 RP Number: JRU DI #1 2RP-4826 Logged By: Rebert 11. Hole Diameter: 3"
Moisture Content Chloride (ppm)	Vapor (ppm) Staining Sample #	Depth (ft. bgs.) Depth Depth	Lithology/Remarks
dry 2124 o dry 2124		$ \begin{array}{c} 0 \\ - \\ 0,5' \\ 5 \\ 1 \\ - \\ 2 \\ - \\ - \\ 3 \\ - \\ - \\ 3 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$	Caliché pint/white trace sand Caliché Isand Brown Itan

		š	5 Car	i08 Wes Isbad, I		al, Inc. s Street co 88220 g · Remedi			Identifier: SSO Project Name: JRV DI #/ 1274 16		Date: OG/24/19 RP Number: 2 R.P - 4826
		LITHO	LOGIC	/ SOI		LING LO)G		Logged By: Rober	d M.	Method: Hand Anger
Lat/Long:					Field Scree	ening:			Hole Diameter:	2	Total Depth:
Comments	5:										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type		Lit	thology/Ren	narks
dry	<124	4.8	V		0	0.5'	5	Calic	iche Pink (Wh	te trace	soud
dry	C 124	3.6	N		1	+ 	5	Cal	iche / sond	Brown	(tan
					2	+					
					3						
					- -	+ . + +					
					4	+					
					5	+					
				·	6						
				÷	7 _	- -					
					8	-				×	
					-						
					9						
					10						
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LI Environmental. Inc. Lat/Long: Comments:	508 We Carlsbad,	ironmental, Inc. st Stevens Street New Mexico 88220 Engineering · Remediation L SAMPLING LOG Field Screening:	Identifier: SSO 3 Project Name: JRU DI #/ 12 7H 169H Logged By: Roberto M. Method: Haid Auger Hole Diameter: 3" Date: 06/24/19 RP Number: 2 RP - 4/8 26 Method: Haid Auger
Moisture Content Chloride (ppm)	Vapor (ppm) Staining Sample #	Depth Sample 22 24 (ft. bgs.) Depth Signature	Lithology/Remarks
06/03/19 1230 Dry <124 1230 Pry <124	,	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Caliché Pirk/White trace sond Caliché/Sant Brown/Itan

Lat/Long:	508 We Carlsbad,	ironmental, Inc. st Stevens Street New Mexico 88220 Engineering · Remediation IL SAMPLING LOG	Identifier:Date: $06/24/19$ Project Name: TRU DI #1RP Number: JRU DI #1 $2RP - 4826$ $127H$ 169HMethod: Hand AngelHole Diameter: 3^{11} Total Depth: 1
Content Content Chloride (ppm)	Vapor (ppm) Staining Sample #	Depth (ft. bgs.) Depth	Lithology/Remarks
Dry 2124 Dry 2124	4.9 y 4.6 N	$ \begin{array}{c} 0 \\ - \\ 0.5' \\ 5 \\ - \\ 2 \\ - \\ 3 \\ - \\ 4 \\ - \\ 5 \\ - \\ 6 \\ - \\ 7 \\ - \\ 8 \\ - \\ 9 \\ - \\ 10 \\ - \\ 11 \\ - \\ - \\ 11 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$	Iliché Pink/White trace sand aliché/sand Brown/tan

								Identifier: Date: 06/24/19 Project Name: SRU DI #1 2RP Number: SRU DI #1 2RP 4826 127H W1A 2RP 4826 Logged By: Robert M. Hole Diameter: 3"
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
06/03 h9 1620 Dry 1240 Dry	2003	4.9 5,1	Y N		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.5'	S S	Calche Pink/While trace soud Calche/Sand Brann ten

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ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG



Photograph 1: View of release area during site assessment activities.



Photograph 2: View of release area during site assessment activities.



Photograph 3: View of release area during site assessment activities.



JRU DI #1 127H/169H Eddy County, New Mexico Photographs Taken: June 2019

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for LT Environmental, Inc.

Project Manager: Ashley Ager

JRU DI #1 127H

12-JUN-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429), North Carolina (483)





12-JUN-19

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

Reference: XENCO Report No(s): 626933 JRU DI #1 127H Project Address: Delaware Basin

Ashley Ager:

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) 626933. 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. 626933 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Vramer

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 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	06-03-19 16:00	0.5	626933-001
SS02	S	06-03-19 16:05	0.5	626933-002
SS03	S	06-03-19 16:10	0.5	626933-003
SS04	S	06-03-19 16:15	0.5	626933-004
SS05	S	06-03-19 16:20	0.5	626933-005



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: JRU DI #1 127H

Project ID: Work Order Number(s): 626933

ATORIES

Report Date: 12-JUN-19 Date Received: 06/07/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3091974 BTEX by EPA 8021 Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected. Samples affected are: 626931-010 S,626933-005. Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id:Contact:Ashley AgerProject Location:Delaware Basin

Certificate of Analysis Summary 626933

LT Environmental, Inc., Arvada, CO Project Name: JRU DI #1 127H



Date Received in Lab:Fri Jun-07-19 11:40 amReport Date:12-JUN-19Project Manager:Jessica Kramer

	Lab Id:	626933-0	001	626933-0	002	626933-0	003	626933-	004	626933-	005	
Analysis Beaussted	Field Id:	SS01	SS01			SS03		SS04		SS05		
Analysis Requested	Depth:	0.5-		0.5-		0.5-		0.5-		0.5-		
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	Jun-03-19	16:00	Jun-03-19	16:05	Jun-03-19	16:10	Jun-03-19	16:15	Jun-03-19	16:20	
BTEX by EPA 8021	Extracted:	Jun-11-19 (08:30	Jun-11-19	08:30	Jun-11-19	08:30	Jun-11-19	08:30	Jun-11-19	08:30	
	Analyzed:	Jun-11-192	23:32	Jun-11-19	23:51	Jun-12-19	00:10	Jun-12-19	00:29	Jun-12-19	00:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	
Toluene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	
Ethylbenzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	
m,p-Xylenes		< 0.00402	0.00402	< 0.00398	0.00398	< 0.00397	0.00397	< 0.00401	0.00401	< 0.00399	0.00399	
o-Xylene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	0.00202	0.00200	
Total Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	0.00202	0.00200	
Total BTEX		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	0.00202	0.00200	
Chloride by EPA 300	Extracted:	Jun-08-19	14:00	Jun-08-19	14:00	Jun-08-19	14:00	Jun-08-19	14:00	Jun-08-19	14:00	
	Analyzed:	Jun-08-19	16:15	Jun-08-19	16:23	Jun-08-19 16:30		Jun-08-19 16:37		Jun-08-19 16:44		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		73.6	5.05	122	5.00	129	5.03	316	25.0	396	4.97	
TPH by SW8015 Mod	Extracted:	** ** **	**	** ** **	**	** ** **	**	** ** **	**	Jun-07-19	16:00	
	Analyzed:	Jun-07-19	22:10	Jun-07-19	22:36	Jun-07-19	23:01	Jun-07-19	23:26	Jun-08-19	01:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)	·	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	29.3	15.0	<15.0	15.0	
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	29.3	15.0	<15.0	15.0	
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	29.3	15.0	<15.0	15.0	

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

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

fession kenner

Jessica Kramer Project Assistant

Page 5 of 21



Certificate of Analytical Results 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id: SS01		Matrix:	Soil		Date Received:	06.07.19 11.4	0		
Lab Sample Id: 626933	3-001	Date Collec	ted: 06.03.19 16.00	Sample Depth: 0.5					
Analytical Method: Cl	hloride by EPA 300				Prep Method: I	E300P			
Tech: SPC					% Moisture:				
Analyst: SPC		Date Prep:	06.08.19 14.00		Basis:	Wet Weight			
Seq Number: 309169	1								
Parameter	Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil		
Chloride	16887-00-6	73.6	5.05	mg/kg	06.08.19 16.1	5	1		

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM	5 Mod	Date Prep:	06.07.19 11.00	(Prep Method: TX % Moisture: Basis: We	1005P t Weight	
Seq Number: 3091703		Date Trep.	00.07.17 11.00			e in englite	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 22.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 22.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 22.10	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 22.10	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.07.19 22.10	U	1

ito	1110020	<15.0	15.0		mg/ ng	00.07.17 22.10	U	
ate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
rooctane		111-85-3	128	%	70-135	06.07.19 22.10		
nenyl		84-15-1	96	%	70-135	06.07.19 22.10		
	ate	ate	ateCas Numberrooctane111-85-3	ateCas Number% Recoveryrooctane111-85-3128	ateCas Number% RecoveryUnitsrooctane111-85-3128%	ate% Cas Number RecoveryUnitsLimitsrooctane111-85-3128%70-135	ate% Cas Number RecoveryUnitsLimitsAnalysis Daterooctane111-85-3128%70-13506.07.1922.10	ate% Cas Number RecoveryUnitsLimitsAnalysis DateFlagrooctane111-85-3128%70-13506.07.1922.10



Certificate of Analytical Results 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id: SS01	Matrix:	Soil	Date Recei	ved:06.07.19 11.40
Lab Sample Id: 626933-001	Date Collecte	d: 06.03.19 16.00	Sample De	pth: 0.5
Analytical Method: BTEX by EPA 8021 Tech: DVM			Prep Metho % Moisture	od: SW5030B
Analyst: DVM	Date Prep:	06.11.19 08.30	Basis:	Wet Weight
Seq Number: 3091974	Bute Hep.			

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.11.19 23.32	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.11.19 23.32	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.11.19 23.32	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.11.19 23.32	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.11.19 23.32	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.11.19 23.32	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.11.19 23.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	98	%	70-130	06.11.19 23.32		
4-Bromofluorobenzene		460-00-4	79	%	70-130	06.11.19 23.32		



o-Terphenyl

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Certificate of Analytical Results 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id: SS02		Matrix:	Soil	Date Recei	ved:06.07.19 11.40	1
Lab Sample Id: 626933-002		Date Collecte	ed: 06.03.19 16.05	Sample Dep	pth: 0.5	
Analytical Method: Chloride by EPA Tech: SPC	300			Prep Metho % Moisture		
Analyst: SPC		Date Prep:	06.08.19 14.00	Basis:	e. Wet Weight	
Seq Number: 3091691						
Parameter	Cas Number	Result I	8L	Units Analysis	s Date Flag	Dil

1 al ameter	Cas Number	Kesuit	KL	Units	Analysis Date	riag	DII
Chloride	16887-00-6	122	5.00	mg/kg	06.08.19 16.23		1

Analytical Method:TPH by SW80Tech:ARMAnalyst:ARMSeq Number:3091703	15 Mod	Date Prej	p: 06.07.	19 11.00	9	Prep Method: TX 6 Moisture: Basis: We	1005P et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 22.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 22.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 22.36	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 22.36	U	1
Total GRO-DRO	PHC628	<15.0	15.0		mg/kg	06.07.19 22.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	124	%	70-135	06.07.19 22.36		

100

%

84-15-1

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06.07.19 22.36

70-135



Certificate of Analytical Results 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id: SS02	Matrix: Soil	Date Received:06.07.19 11.40		
Lab Sample Id: 626933-002	Date Collected: 06.03.19 16.05	Sample Depth: 0.5		
Analytical Method: BTEX by EPA 8021		Prep Method: SW5030B		
Tech: DVM		% Moisture:		
Analyst: DVM	Date Prep: 06.11.19 08.30	Basis: Wet Weight		
Seq Number: 3091974				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.11.19 23.51	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.11.19 23.51	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.11.19 23.51	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.11.19 23.51	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.11.19 23.51	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.11.19 23.51	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.11.19 23.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	78	%	70-130	06.11.19 23.51		
1,4-Difluorobenzene		540-36-3	100	%	70-130	06.11.19 23.51		



o-Terphenyl

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Certificate of Analytical Results 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id:	SS03		Matrix:	Soil		Date Received	1:06.07.19 11.4	0
Lab Sample Id	l: 626933-003		Date Collec	ted: 06.03.19 16.10		Sample Depth	:0.5	
Analytical Me	thod: Chloride by EPA 3	00				Prep Method:	E300P	
Tech:	SPC					% Moisture:		
Analyst:	SPC		Date Prep:	06.08.19 14.00		Basis:	Wet Weight	
Seq Number:	3091691							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil

r ai ainetei	Cas Number	Result	KL	Units	Analysis Date	riag	DII
Chloride	16887-00-6	129	5.03	mg/kg	06.08.19 16.30		1

Analytical Method: TPH by SW801	5 Mod				Р	Prep Method: TX	K1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Pre	p: 06.07.1	9 11.00	В	Basis: W	et Weight	
Seq Number: 3091703								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.07.19 23.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.07.19 23.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 23.01	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.07.19 23.01	U	1
Total GRO-DRO	PHC628	<15.0	15.0		mg/kg	06.07.19 23.01	U	1
Surrogate		Cas Number	%	Units	Limits	Analysis Date	Flag	
0			Recovery			·	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	06.07.19 23.01		

84

%

70-135

06.07.19 23.01

84-15-1

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Certificate of Analytical Results 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id: SS03	Matrix:	Soil	Date Recei	ved:06.07.19 11.40	
Lab Sample Id: 626933-003	Date Collecte	ed: 06.03.19 16.10	Sample Depth: 0.5		
Analytical Method:BTEX by EPA 8021Tech:DVMAnalyst:DVMSeq Number:3091974	Date Prep:	06.11.19 08.30	Prep Meth % Moistur Basis:	od: SW5030B e: Wet Weight	

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	06.12.19 00.10	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	06.12.19 00.10	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	06.12.19 00.10	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	06.12.19 00.10	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	06.12.19 00.10	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	06.12.19 00.10	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	06.12.19 00.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	06.12.19 00.10		
4-Bromofluorobenzene		460-00-4	90	%	70-130	06.12.19 00.10		



o-Terphenyl

Certificate of Analytical Results 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id:	SS04		Matrix:	Soil		Date Received:06	5.07.19 11.4	0
Lab Sample I	d: 626933-004		Date Collec	cted: 06.03.19 16.15		Sample Depth: 0.5		
Analytical M	ethod: Chloride by EPA	. 300				Prep Method: E	300P	
Tech:	SPC					% Moisture:		
Analyst:	SPC		Date Prep:	06.08.19 14.00		Basis: W	et Weight	
Seq Number:	3091691							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	316	25.0	mg/kg	06.08.19 16.37		5

Analytical Method:TPH by SW80Tech:ARMAnalyst:ARMSeq Number:3091703	15 Mod	Date Prep	o: 06.07.	19 11.00	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	<15.0	15.0		mg/kg	06.07.19 23.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	29.3	15.0		mg/kg	06.07.19 23.26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.07.19 23.26	U	1
Total TPH	PHC635	29.3	15.0		mg/kg	06.07.19 23.26		1
Total GRO-DRO	PHC628	29.3	15.0		mg/kg	06.07.19 23.26		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	06.07.19 23.26		

85

%

84-15-1

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06.07.19 23.26

70-135





LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id: SS04	Matrix: Soi	il	Date Received:06.07.19 11.40				
Lab Sample Id: 626933-004	Date Collected: 06.	.03.19 16.15	Sample Depth: 0.5				
Analytical Method: BTEX by EPA 8021			Prep Method:	SW5030B			
Tech: DVM			% Moisture:				
Analyst: DVM	Date Prep: 06.	.11.19 08.30	Basis:	Wet Weight			
Seq Number: 3091974							

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.12.19 00.29	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.12.19 00.29	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.12.19 00.29	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.12.19 00.29	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.12.19 00.29	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.12.19 00.29	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.12.19 00.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	06.12.19 00.29		
4-Bromofluorobenzene		460-00-4	85	%	70-130	06.12.19 00.29		



o-Terphenyl

Certificate of Analytical Results 626933



LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id: SS05		Matrix:	Soil	Date Rec	9 11.40	
Lab Sample Id: 626933-005		Date Collec	ted: 06.03.19 16.20	16.20Sample Depth: 0.5		
Analytical Method: Chloride by EPA Tech: SPC	A 300			Prep Met % Moisti	hod: E300P ire:	
Analyst: SPC		Date Prep:	06.08.19 14.00	Basis:	Wet We	eight
Seq Number: 3091691		_				
Parameter	Cas Number	Result	RL	Units Analy	sis Date F	lag Dil

 Chloride
 16887-00-6
 396
 4.97
 mg/kg
 06.08.19
 16.44
 1

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: TX	(1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	o: 06.07.1	9 16.00	В	Basis: Wet Weig		
Seq Number: 3091704								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.08.19 01.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.08.19 01.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	06.08.19 01.31	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.08.19 01.31	U	1
Total GRO-DRO	PHC628	<15.0	15.0		mg/kg	06.08.19 01.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	06.08.19 01.31		

97

%

70-135

06.08.19 01.31

84-15-1



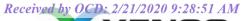


LT Environmental, Inc., Arvada, CO

JRU DI #1 127H

Sample Id: SS05	Matrix: Soil		Date Received:06.07.19 11.40				
Lab Sample Id: 626933-005	Date Collected: 06.03.	19 16.20	Sample Depth: 0.5				
Analytical Method: BTEX by EPA 8021			Prep Method:	SW5030B			
Tech: DVM			% Moisture:				
Analyst: DVM	Date Prep: 06.11.	19 08.30	Basis:	Wet Weight			
Seq Number: 3091974							

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.12.19 00.48	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.12.19 00.48	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.12.19 00.48	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.12.19 00.48	U	1
o-Xylene	95-47-6	0.00202	0.00200		mg/kg	06.12.19 00.48		1
Total Xylenes	1330-20-7	0.00202	0.00200		mg/kg	06.12.19 00.48		1
Total BTEX		0.00202	0.00200		mg/kg	06.12.19 00.48		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	59	%	70-130	06.12.19 00.48	**	
1,4-Difluorobenzene		540-36-3	102	%	70-130	06.12.19 00.48		



Flagging Criteria



Page 41 of 68

- 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. JRU DI #1 127H

Analytical Metho	d: Chloride l	by EPA 30	00						Pı	ep Metho	od: E300	0P	
Seq Number:	3091691				Matrix:	Solid			Date Prep: 06.08.19				
MB Sample Id:	7679534-1	7679534-1-BLK			nple Id:	7679534-	1-BKS		LCS	D Sample	Id: 7679	9534-1-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	245	98	246	98	90-110	0	20	mg/kg	06.08.19 15:03	
Analytical Metho	d: Chloride l	by EPA 30	00						Pı	ep Metho	d: E300	0P	
Seq Number:	3091691				Matrix:	Soil				Date Pre	ep: 06.0	8.19	

Parent Sample Id:	626932-003	626932-003 MS Sample Id: 626932-003 S MSD Sample Id: 626932-003 S						932-003 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD R	PD Limit	Units	Analysis Date	Flag
Chloride	245	250	482	95	483	95	90-110	0	20	mg/kg	06.08.19 15:25	

Analytical Method:	Chloride by EPA 30	00						P	ep Metho	od: E30	00P	
Seq Number:	3091691			Matrix:	Soil				Date Pre	ep: 06.	08.19	
Parent Sample Id:	626962-002		MS Sar	nple Id:	626962-00	02 S		MS	D Sample	e Id: 626	5962-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
							90-110					

Analytical Method:	TPH by S	W8015 M	od						I	Prep Method	i: TX1	005P	
Seq Number:	3091703				Matrix:	Solid				Date Prep	p: 06.0	7.19	
MB Sample Id:	7679503-1	-BLK		LCS Sar	nple Id:	7679503-	1-BKS		LCS	SD Sample	Id: 7679	9503-1-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)	<8.00	1000	993	99	1030	103	70-135	4	20	mg/kg	06.07.19 13:13	
Diesel Range Organics	(DRO)	<8.13	1000	1110	111	1030	103	70-135	7	20	mg/kg	06.07.19 13:13	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		97		1	02		102		7	0-135	%	06.07.19 13:13	
o-Terphenyl		76		1	15		94		7	0-135	%	06.07.19 13:13	

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. JRU DI #1 127H

Analytical Method:	TPH by S	W8015 M	od]	Prep Method	l: TX1	005P	
Seq Number:	3091704			-	Matrix:	Solid				Date Prep	o: 06.0	7.19	
MB Sample Id:	7679504-1	-BLK		LCS San	nple Id:	7679504-	1-BKS		LC	SD Sample l	ld: 7679	9504-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	O RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	10.7	1000	1190	119	1190	119	70-135	0	20	mg/kg	06.08.19 00:41	
Diesel Range Organics	(DRO)	<8.13	1000	1160	116	1190	119	70-135	3	20	mg/kg	06.08.19 00:41	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane		115		1	20		120		,	70-135	%	06.08.19 00:41	
o-Terphenyl		94		1	21		111		,	70-135	%	06.08.19 00:41	

Analytical Method: Seq Number: Parent Sample Id:	TPH by S 3091703 626930-00		od		Matrix: nple Id:	Soil 626930-00	01 S			Prep Method Date Prep SD Sample l	o: 06.0		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	12.8	999	976	96	982	97	70-135	1	20	mg/kg	06.07.19 14:29	
Diesel Range Organics	(DRO)	108	999	973	87	1090	98	70-135	11	20	mg/kg	06.07.19 14:29	
Surrogate					1S Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	01		102		7	70-135	%	06.07.19 14:29	
o-Terphenyl				5	87		106		7	70-135	%	06.07.19 14:29	

Analytical Method: Seq Number:	TPH by S 3091704	W8015 M	od		Matrix:	Soil				Prep Methoo Date Prep		.005P 17.19	
Parent Sample Id:	626933-00	5		MS San	nple Id:	626933-00)5 S		Μ	SD Sample	ld: 6269	933-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	13.6	997	1160	115	1200	119	70-135	3	20	mg/kg	06.08.19 01:56	
Diesel Range Organics	(DRO)	8.96	997	1110	110	1150	114	70-135	4	20	mg/kg	06.08.19 01:56	
Surrogate					IS Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1-Chlorooctane				1	16		119			70-135	%	06.08.19 01:56	
o-Terphenyl				1	11		113			70-135	%	06.08.19 01:56	

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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QC Summary 626933

LT Environmental, Inc. JRU DI #1 127H

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3091974 7679699-1-BLK	1	LCS Sar	Matrix: nple Id:	Solid 7679699-	1-BKS			Prep Metho Date Pre SD Sample	p: 06.1	5030B 1.19 9699-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0956	96	0.103	102	70-130	7	35	mg/kg	06.11.19 17:05	
Toluene	< 0.00200	0.100	0.0910	91	0.0967	96	70-130	6	35	mg/kg	06.11.19 17:05	
Ethylbenzene	< 0.00200	0.100	0.0991	99	0.104	103	70-130	5	35	mg/kg	06.11.19 17:05	
m,p-Xylenes	< 0.00400	0.200	0.204	102	0.216	107	70-130	6	35	mg/kg	06.11.19 17:05	
o-Xylene	< 0.00200	0.100	0.102	102	0.108	107	70-130	6	35	mg/kg	06.11.19 17:05	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	88		1	03		103			70-130	%	06.11.19 17:05	
4-Bromofluorobenzene	76		1	07		96			70-130	%	06.11.19 17:05	

Analytical Method:	BTEX by EPA 8021	l]	Prep Metho	d: SW:	5030B	
Seq Number:	3091974			Matrix:	Soil				Date Prep	p: 06.1	1.19	
Parent Sample Id:	626931-010		MS San	nple Id:	626931-01	10 S		Μ	SD Sample	Id: 6269	931-010 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.000383	0.0996	0.0871	87	0.0992	100	70-130	13	35	mg/kg	06.11.19 17:44	
Toluene	< 0.000454	0.0996	0.0905	91	0.0943	95	70-130	4	35	mg/kg	06.11.19 17:44	
Ethylbenzene	< 0.000563	0.0996	0.101	101	0.104	105	70-130	3	35	mg/kg	06.11.19 17:44	
m,p-Xylenes	< 0.00101	0.199	0.205	103	0.213	107	70-130	4	35	mg/kg	06.11.19 17:44	
o-Xylene	0.000549	0.0996	0.0976	97	0.104	104	70-130	6	35	mg/kg	06.11.19 17:44	
Surrogate				1S Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		104		-	70-130	%	06.11.19 17:44	
4-Bromofluorobenzene			6	53	**	91		-	70-130	%	06.11.19 17:44	

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

Receiv	ed by		<u>): 2</u>		<u>20 9:</u>	28:	<u>51</u>	<u>4 M</u>	 	 		- <u></u>			-			1-	1	I	100		<u>(</u>	1-			15			Page 45 of 68
		Refut,	Relinquished by:	or service. Xenco will be liable only for the cost of samples constitutes a valid purchase order from client company to Xenco, its 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 such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$6 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method(s	Total 200.7 / 6010			n an	5055	hoss	S 203	2055	SSOI	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:	
			(Signature)	incument and reinquis liable only for the cost- irge of \$75.00 will be ap	Circle Method(s) and Metal(s) to be analyzed	010 200.8 / 6020:				05	ho	ε.	7			IS: Yes No	Yes	(Yes)	NGD	ــــــ م	Robert McAfee	5		JRU	432.704.5178	Midland, TX 79705	3300 North A Street	LT Environmenta	Ashley Ager	
		Julian	A Received	nment or samples cons of samples and shall nc splied to each project a	be analyzed					* *				5 06/03/19	XIX	(NIA) Tota	┢		(Temp Blank: Yes No		Å		DI #1 127		05	eet	LT Environmental, Inc., Permian office		UN SALAN
			Received by: (Signature)	ittutes a valid purchase of assume any responsion a charge of \$5 for ea	TCLP / SPLP 6010: 8RCRA	8RCRA 13PPM				1620	16/5	ic lo	1605	1600 0	Sampled	Total Containers:	Correction Factor: (RA I		Wet Ice: Yes	Due Date:		Routine	Ŧ	Email: aage	City,			Bill to	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (Hobbs,NM (575-382-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)
		06-0		e order from cilent co Ibliity for any losses (ach sample submitted	10: 8RCRA S	-				 ↓ 				0.5	Num			ntaii		s No		day		ound	er@ltenv.com m	City, State ZIP: C		Company Name: X	Bill to: (if different) K	Ch 181) 240-4200 Dalla 1432-704-5440) ELI <u>1</u> Phoenix,AZ (480-
	6	-06-19-12 312	Date/Time	mpany to Xenco, its af or expenses incurred t i to Xenco, but not ana	Sb As Ba Be Cd Cr Co Cu	Sb As Ba Be B				X X X	XXX	×XX	× × ×	X X X	TPH (I BTEX Chlori	(EPA	0=80								Email: ager@ltenv.com rmcafee@ltenv.com	Carlsbad, NM		XTO-Energy	Kyle Littrel	Chain of Custody Iouston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX
			Relinquished	fillates and subcontra sy the client if such los lyzed. These terms wi	I Cr Co Cu Pb	Cd Ca Cr Co			(ANA	m					
			ed by: (Signature)	ctors. It assigns stan ses are due to circum I be enforced unless	Pb Mn Mo Ni Se Ag TI U	Cu Fe																		LYSIS REQUEST	Deli	Rep		Pro		(210) 509-3334 (806)794-1296) Tampa,FL (813-620-2000)
		M.C.	. Receive	lard terms and condit istances beyond the co previously negotlated.	Ag TI U	Pb Mg Mn Mo Ni K Se										· · · · · · · · · · · · · · · · · · ·						<u> </u>			Deliverables: EDD	Reporting:Level IIevel III		Program: UST/PST		
	K	1 Al	Received by: (Signature)	ions introl		Ag SiO2 Na										1										evel III ST/UST	[PRP Brownfields	Work Order Comments	Work Order No:
Revised Date		5112/01			45.1 / 7470 /	Sr TI Sn U V				4			· • • • •	discret	Sample Comments	lab, if received by 4:30pm	TAT starts the day of							Work Order Notes	Othe]	R	nments	10269
Revised Date 051418 Rev. 2018.		04/1-9	Date/Time		17471 : Hg	Zn							X		nments	by 4:30pm	possion but the							r Notes						

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Final 1.000

Received by OCD: 2/21/2020 9:28:51 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: 06/07/2019 11:40:00 AM Temperature Measuring device used : R8 Work Order #: 626933 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

#17 Subcontract of sample(s): #18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 06/07/2019

N/A

Checklist reviewed by:

Jession VRAMER

Jessica Kramer

Date: 06/07/2019

for LT Environmental, Inc.

Project Manager: Ashley Ager

JRU DI1 127H

05-JUL-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429), North Carolina (483) Received by OCD: 2/21/2020 9:28:51 AM



05-JUL-19

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

Reference: XENCO Report No(s): 629500 JRU DI1 127H Project Address: Delaware Basin

Ashley Ager:

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) 629500. 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. 629500 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,

Kalei Stout Carlsbad Laboratory Director

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.

Sample Cross Reference 629500

LT Environmental, Inc., Arvada, CO

JRU DI1 127H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	06-24-19 12:20	1 ft	629500-001
SS02	S	06-24-19 12:25	1 ft	629500-002
SS03	S	06-24-19 12:30	1 ft	629500-003
SS04	S	06-24-19 12:35	1 ft	629500-004
SS05	S	06-24-19 12:40	1 ft	629500-005



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: JRU DI1 127H

Project ID: Work Order Number(s): 629500

ATORIES

Report Date: 05-JUL-19 Date Received: 06/28/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3094507 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 629500-001.





Project Id:Contact:Ashley AgerProject Location:Delaware Basin

Certificate of Analysis Summary 629500

LT Environmental, Inc., Arvada, CO Project Name: JRU DI1 127H

Date Received in Lab:Fri Jun-28-19 12:00 pmReport Date:05-JUL-19Project Manager:Jessica Kramer

	Lab Id:	629500-0	001	629500-0	002	629500-0	003	629500-0	004	629500-0	005	
An alugia Degregated	Field Id:	SS01		SS02		SS03		SS04		SS05		
Analysis Requested	Depth:	1- ft										
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	Jun-24-19	12:20	Jun-24-19	12:25	Jun-24-19	12:30	Jun-24-19	12:35	Jun-24-19	12:40	
BTEX by EPA 8021B	Extracted:	Jul-02-19	11:00	Jul-02-19 1	11:00	Jul-02-19	1:00	Jul-02-19	11:00	Jul-02-19 1	11:00	
SUB: T104704400-18-16	Analyzed:	Jul-04-19 (02:24	Jul-04-19 (02:47	Jul-04-19 (03:10	Jul-04-19 ()4:56	Jul-04-19 ()5:19	
	Units/RL:	mg/kg	RL									
Benzene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	
Toluene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	
Ethylbenzene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	
m,p-Xylenes		< 0.00397	0.00397	< 0.00401	0.00401	< 0.00400	0.00400	< 0.00402	0.00402	< 0.00399	0.00399	
o-Xylene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	
Total Xylenes		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	
Total BTEX		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	Jul-01-19	15:30	Jul-01-19 1	15:30	Jul-01-19	5:30	Jul-01-19	15:30	Jul-01-19 1	15:30	
SUB: T104704400-18-16	Analyzed:	Jul-02-19 (08:42	Jul-02-19 (08:47	Jul-02-19 (08:52	Jul-02-19 ()8:56	Jul-01-19 1	19:56	
	Units/RL:	mg/kg	RL									
Chloride		5.36	5.00	24.8	5.05	16.4	4.99	8.06	5.02	85.5	50.4	
TPH by SW8015 Mod	Extracted:	Jul-02-19 (07:00									
SUB: T104704400-18-16	Analyzed:	Jul-02-19	17:53	Jul-02-19 1	18:37	Jul-02-19	9:01	Jul-02-19	19:26	Jul-02-19 1	19:50	
	Units/RL:	mg/kg	RL									
Gasoline Range Hydrocarbons (GRO)		<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Diesel Range Organics (DRO)		29.3	14.9	41.8	15.0	<15.0	15.0	26.8	15.0	<15.0	15.0	
Motor Oil Range Hydrocarbons (MRO)		<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Total TPH		29.3	14.9	41.8	15.0	<15.0	15.0	26.8	15.0	<15.0	15.0	
Total GRO-DRO		29.3	14.9	41.8	15.0	<15.0	15.0	26.8	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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Kalei Stout Carlsbad Laboratory Director



.

Certificate of Analytical Results 629500

LT Environmental, Inc., Arvada, CO

JRU DI1 127H

Sample Id: SS01 Lab Sample Id: 629500-001		Matrix: Date Collec	Soil cted: 06.24.19 12.20		Date Received:06 Sample Depth: 1 f		0
Analytical Method: Chloride by EPA	300				Prep Method: E3	00P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	07.01.19 15.30		Basis: We	et Weight	
Seq Number: 3094159		-			SUB: T10470440	0-18-16	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.36	5.00	mg/kg	07.02.19 08.42		1

Analytical Method: TPH by SW80 Tech: DVM	15 Mod				9	Prep Method: TX 6 Moisture:		
Analyst: ARM		Date Prep:	07.02.	19 07.00	E	Basis: We	t Weight	
Seq Number: 3094320					S	SUB: T104704400)-18-16	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	07.02.19 17.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	29.3	14.9		mg/kg	07.02.19 17.53		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	07.02.19 17.53	U	1
Total TPH	PHC635	29.3	14.9		mg/kg	07.02.19 17.53		1
Total GRO-DRO	PHC628	29.3	14.9		mg/kg	07.02.19 17.53		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	07.02.19 17.53		
o-Terphenyl		84-15-1	98	%	70-135	07.02.19 17.53		



LT Environmental, Inc., Arvada, CO JRU DI1 127H

Analytical Method: B Tech: FOV Analyst: AMB Seq Number: 309450	Cas Number	Result F	8L	Units	Analysis Date	Flag	Dil
Analytical Method: B Tech: FOV	7			S	SUB: T10470440	00-18-16	
Analytical Method: B		Date Prep:	07.02.19 11.00	E	Basis: W	et Weight	
•				9	% Moisture:		
Luo Sumple Iu. 02930	TEX by EPA 8021B			F	Prep Method: SV	W5030B	
Lab Sample Id: 62950	0-001	Date Collecte	ed: 06.24.19 12.20	S	Sample Depth: 1	ft	
Sample Id: SS01		Matrix:	Soil	Γ	Date Received:06	5.28.19 12.0	0

r al ameter	Cas Number	Kesuit	KL		Units	Analysis Date	riag	DII
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	07.04.19 02.24	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	07.04.19 02.24	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	07.04.19 02.24	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	07.04.19 02.24	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	07.04.19 02.24	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	07.04.19 02.24	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	07.04.19 02.24	U	1
Surrogate		Cas Number	% Dagawawy	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	Recovery 162	%	70-130	07.04.19 02.24	**	
1,4-Difluorobenzene		540-36-3	100	%	70-130	07.04.19 02.24		



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Certificate of Analytical Results 629500

LT Environmental, Inc., Arvada, CO

JRU DI1 127H

Sample Id: SS02 Lab Sample Id: 629500-002		Matrix: Date Colle	Soil cted: 06.24.19 12.25		Date Received:06. Sample Depth: 1 ft		0
Analytical Method: Chloride by EPA	A 300				Prep Method: E30)0P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	07.01.19 15.30		Basis: We	t Weight	
Seq Number: 3094159		-			SUB: T104704400	-18-16	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.8	5.05	mg/kg	07.02.19 08.47		1

Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3094320	15 Mod	Date Prep	Date Prep: 07.02.19 07.00			Prep Method: TX1005P % Moisture: Basis: Wet Weight SUB: T104704400-18-16			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.02.19 18.37	U	1	
Diesel Range Organics (DRO)	C10C28DRO	41.8	15.0		mg/kg	07.02.19 18.37		1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	07.02.19 18.37	U	1	
Total TPH	PHC635	41.8	15.0		mg/kg	07.02.19 18.37		1	
Total GRO-DRO	PHC628	41.8	15.0		mg/kg	07.02.19 18.37		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	88	%	70-135	07.02.19 18.37			
o-Terphenyl		84-15-1	82	%	70-135	07.02.19 18.37			



LT Environmental, Inc., Arvada, CO JRU DI1 127H

Sample Id: SS02 Lab Sample Id: 629500-002		Matrix: Date Collecte	Soil ed: 06.24.19 12.25		Date Received:06 Sample Depth: 1 f)
Analytical Method: BTEX by I	EPA 8021B				Prep Method: SW	/5030B	
Tech: FOV Analyst: AMB		Date Prep:	07.02.19 11.00		% Moisture: Basis: We	et Weight	
Seq Number: 3094507				:	SUB: T10470440	0-18-16	
Parameter	Cas Number	Result I	RL	Units	Analysis Date	Flag	Dil

						8	
71-43-2	< 0.00200	0.00200		mg/kg	07.04.19 02.47	U	1
108-88-3	< 0.00200	0.00200		mg/kg	07.04.19 02.47	U	1
100-41-4	< 0.00200	0.00200		mg/kg	07.04.19 02.47	U	1
179601-23-1	< 0.00401	0.00401		mg/kg	07.04.19 02.47	U	1
95-47-6	< 0.00200	0.00200		mg/kg	07.04.19 02.47	U	1
1330-20-7	< 0.00200	0.00200		mg/kg	07.04.19 02.47	U	1
	< 0.00200	0.00200		mg/kg	07.04.19 02.47	U	1
		%					
	Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
	540-36-3	95	%	70-130	07.04.19 02.47		
	460-00-4	105	%	70-130	07.04.19 02.47		
	108-88-3 100-41-4 179601-23-1 95-47-6	108-88-3 <0.00200	108-88-3 <0.00200	108-88-3 <0.00200	108-88-3 <0.00200	71-43-2 <0.00200	71-43-2 <0.00200



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Certificate of Analytical Results 629500

LT Environmental, Inc., Arvada, CO

JRU DI1 127H

Sample Id:SS03Lab Sample Id:629500-003		Matrix: Date Colle	Soil cted: 06.24.19 12.30		Date Received:06.2 Sample Depth: 1 ft		0
Analytical Method: Chloride by EPA	300				Prep Method: E30	00P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	07.01.19 15.30		Basis: We	t Weight	
Seq Number: 3094159					SUB: T104704400	-18-16	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.4	4.99	mg/kg	07.02.19 08.52		1

Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3094320	15 Mod	Date Prep	Date Prep: 07.02.19 07.00			Prep Method: TX1005P % Moisture: Basis: Wet Weight SUB: T104704400-18-16			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.02.19 19.01	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.02.19 19.01	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	07.02.19 19.01	U	1	
Total TPH	PHC635	<15.0	15.0		mg/kg	07.02.19 19.01	U	1	
Total GRO-DRO	PHC628	<15.0	15.0		mg/kg	07.02.19 19.01	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	88	%	70-135	07.02.19 19.01			
o-Terphenyl		84-15-1	82	%	70-135	07.02.19 19.01			



LT Environmental, Inc., Arvada, CO JRU DI1 127H

Sample Id:	SS03		Matrix:	Soil		Date Received:	06.28.19 12.00)
Lab Sample Id	1: 629500-003		Date Collecte	ed: 06.24.19 12.30	Sample Depth: 1 ft			
Analytical Me	ethod: BTEX by EPA 802	21B				Prep Method:	SW5030B	
Tech:	FOV					% Moisture:		
Analyst:	AMB		Date Prep:	07.02.19 11.00		Basis:	Wet Weight	
Seq Number:	3094507					SUB: T1047044	400-18-16	
Parameter		Cas Number	Result F	8L	Units	Analysis Dat	e Flag	Dil

Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.04.19 03.10	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.04.19 03.10	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.04.19 03.10	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	07.04.19 03.10	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.04.19 03.10	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.04.19 03.10	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.04.19 03.10	U	1
			%					
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	123	%	70-130	07.04.19 03.10		
1,4-Difluorobenzene		540-36-3	89	%	70-130	07.04.19 03.10		



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Certificate of Analytical Results 629500

LT Environmental, Inc., Arvada, CO

JRU DI1 127H

Sample Id: SS04 Lab Sample Id: 629500-004		Matrix: Date Colle	Soil cted: 06.24.19 12.35		Date Received:06.2 Sample Depth: 1 ft		0
Analytical Method: Chloride by EP.	A 300				Prep Method: E30	0P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	07.01.19 15.30		Basis: Wet	t Weight	
Seq Number: 3094159					SUB: T104704400	-18-16	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.06	5.02	mg/kg	07.02.19 08.56		1

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: DVM					9	6 Moisture:		
Analyst: ARM		Date Prep	b: 07.02.1	9 07.00	E	Basis: We	t Weight	
Seq Number: 3094320					S	UB: T104704400)-18-16	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.02.19 19.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	26.8	15.0		mg/kg	07.02.19 19.26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	07.02.19 19.26	U	1
Total TPH	PHC635	26.8	15.0		mg/kg	07.02.19 19.26		1
Total GRO-DRO	PHC628	26.8	15.0		mg/kg	07.02.19 19.26		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	07.02.19 19.26		
o-Terphenyl		84-15-1	84	%	70-135	07.02.19 19.26		



LT Environmental, Inc., Arvada, CO JRU DI1 127H

Sample Id: Lab Sample Id	SS04 d: 629500-004		Matrix: Soil Date Collected: 06.24.19 12.35			Date Received:06.28.19 12.00 Sample Depth: 1 ft				
•	ethod: BTEX by EPA 802	21B				Prep Method: S	SW5030B			
Tech: Analyst:	FOV AMB		Date Prep:	07.02.19 11.00		% Moisture: Basis: V	Vet Weight			
Seq Number:	3094507		T.		:	SUB: T1047044	00-18-16			
Parameter		Cas Number	Result F	Ł	Units	Analysis Date	e Flag	Dil		

1 al alletel	Cas Nulliber	Kesun	KL		Units	Analysis Date	riag	DII
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	07.04.19 04.56	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.04.19 04.56	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.04.19 04.56	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.04.19 04.56	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.04.19 04.56	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.04.19 04.56	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.04.19 04.56	U	1
			%					
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	88	%	70-130	07.04.19 04.56		
4-Bromofluorobenzene		460-00-4	118	%	70-130	07.04.19 04.56		



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Certificate of Analytical Results 629500

LT Environmental, Inc., Arvada, CO

JRU DI1 127H

Sample Id: SS05 Lab Sample Id: 629500-005	Matrix: Date Colle	Soil ccted: 06.24.19 12.40		Date Received:06. Sample Depth: 1 ft)
Analytical Method: Chloride by EPA 300				Prep Method: E30)0P	
Tech: CHE				% Moisture:		
Analyst: CHE	Date Prep:	07.01.19 15.30		Basis: We	t Weight	
Seq Number: 3094159				SUB: T104704400)-18-16	
Parameter Cas I	Number Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-	-00-6 85.5	50.4	mg/kg	07.01.19 19.56		10

Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3094320	15 Mod	Date Prep	o: 07.02.	19 07.00	9 E	Prep Method: TX 6 Moisture: Basis: We 5UB: T104704400	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.02.19 19.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.02.19 19.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	07.02.19 19.50	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.02.19 19.50	U	1
Total GRO-DRO	PHC628	<15.0	15.0		mg/kg	07.02.19 19.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	85	%	70-135	07.02.19 19.50		
o-Terphenyl		84-15-1	80	%	70-135	07.02.19 19.50		



LT Environmental, Inc., Arvada, CO JRU DI1 127H

Sample Id: SS05 Lab Sample Id: 629500-005		Matrix: Date Collecte	Soil ed: 06.24.19 12.40	Date Received:06.28.19 12.0 Sample Depth: 1 ft				
Analytical Method: BTEX by EPA 80 Tech: FOV	021B				Prep Method: SV % Moisture:	W5030B		
Tech: FOV Analyst: AMB		Date Prep:	07.02.19 11.00			et Weight		
Seq Number: 3094507					SUB: T10470440	0-18-16		
Parameter	Cas Number	Result I	RL	Units	Analysis Date	Flag	Dil	

					e mus	1111113010 2000	8	211
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.04.19 05.19	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.04.19 05.19	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.04.19 05.19	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	07.04.19 05.19	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.04.19 05.19	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.04.19 05.19	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.04.19 05.19	U	1
			%					
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	07.04.19 05.19		
1,4-Difluorobenzene		540-36-3	90	%	70-130	07.04.19 05.19		





Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection 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. JRU DI1 127H

Analytical Method:	Chloride by EPA 30	0						Pr	ep Metho	d: E30	OP	
Seq Number:	3094159			Matrix:	Solid				Date Pre	p: 07.0	1.19	
MB Sample Id:	7681138-1-BLK		LCS San	nple Id:	7681138-	I-BKS		LCS	D Sample	Id: 7681	138-1-BSD	
	100	a "	T CC							.		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	Units	Analysis Date	Flag
Parameter Chloride							Limits 90-110	% RPD	20	mg/kg	•	Flag

Analytical Method:	Chloride by EPA 3	00						Pre	ep Metho	d: E30	OP	
Seq Number:	3094159			Matrix:	Soil				Date Pre	p: 07.0	1.19	
Parent Sample Id:	629498-001		MS San	nple Id:	629498-00	01 S		MSE	Sample	Id: 6294	498-001 SD	
Parameter	Parent Result	Spike	MS Result	MS % Dec	MSD	MSD	Limits	%RPD F	RPD Limi	t Units	Analysis	Flag
	Kesuit	Amount	Result	%Rec	Result	%Rec					Date	

Analytical Method:	Chloride by EPA 30)0						P	rep Meth	od: E30	0P	
Seq Number:	3094159			Matrix:	Soil				Date Pr	ep: 07.0	1.19	
Parent Sample Id:	629503-003		MS Sar	nple Id:	629503-00)3 S		MS	D Sample	e Id: 629	503-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	7.08	248	279	110	276	108	90-110	1	20	mg/kg	07.01.19 20:15	

Analytical Method:	TPH by S	TPH by SW8015 Mod							Prep Method: TX1005P					
Seq Number:	3094320				Matrix:	Solid				Date Pre	p: 07.0	2.19		
MB Sample Id:	7681277-1	277-1-BLK LCS Sample Id: 7681277-1-BKS								LCSD Sample Id: 7681277-1-BSD				
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	O RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbo	ons (GRO)	<8.00	1000	868	87	873	87	70-135	1	20	mg/kg	07.02.19 09:42		
Diesel Range Organics ((DRO)	<8.13	1000	903	90	872	87	70-135	3	20	mg/kg	07.02.19 09:42		
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date		
1-Chlorooctane		83			75		74		,	70-135	%	07.02.19 09:42		
o-Terphenyl		73		-	75		74		,	70-135	%	07.02.19 09:42		

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

Received by OCD: 2/21/2020 9:28:51 AM



LT Environmental, Inc. JRU DI1 127H

Analytical Method:	TPH by S	W8015 M	lod						Prep Method: TX1005P				
Seq Number:	3094320				Matrix:	Soil				Date Prep	p: 07.0	02.19	
Parent Sample Id:	629503-00)1		MS Sample Id: 629503-001 S			MSD Sample Id: 629503-001 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)	8.94	999	898	89	961	95	70-135	7	20	mg/kg	07.02.19 10:59	
Diesel Range Organics	(DRO)	9.76	999	912	90	1030	102	70-135	12	20	mg/kg	07.02.19 10:59	
Surrogate					AS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1-Chlorooctane				:	84		93		7	0-135	%	07.02.19 10:59	
o-Terphenyl				:	82		105		7	0-135	%	07.02.19 10:59	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3094507 7681347-1-BLK	Prep Method:SolidDate Prep:7681347-1-BKSLCSD Sample Id:					p: 07.0	SW5030B 07.02.19 : 7681347-1-BSD				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.0871	88	0.0863	88	70-130	1	35	mg/kg	07.03.19 21:16	
Toluene	< 0.00199	0.0994	0.0987	99	0.0994	101	70-130	1	35	mg/kg	07.03.19 21:16	
Ethylbenzene	0.000579	0.0994	0.108	109	0.111	113	70-130	3	35	mg/kg	07.03.19 21:16	
m,p-Xylenes	< 0.00101	0.199	0.211	106	0.217	110	70-130	3	35	mg/kg	07.03.19 21:16	
o-Xylene	0.000429	0.0994	0.0979	98	0.102	103	70-130	4	35	mg/kg	07.03.19 21:16	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	86		ç	91		91			70-130	%	07.03.19 21:16	
4-Bromofluorobenzene	115		ç	€7		99			70-130	%	07.03.19 21:16	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3094507 629442-001	1B		Matrix: nple Id:	Soil 629442-00	01 S			Prep Metho Date Pre SD Sample	ep: 07.0	5030B 2.19 442-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.0794	79	0.0795	80	70-130	0	35	mg/kg	07.03.19 22:03	
Toluene	< 0.00201	0.101	0.0765	76	0.0753	75	70-130	2	35	mg/kg	07.03.19 22:03	
Ethylbenzene	< 0.00201	0.101	0.0691	68	0.0684	68	70-130	1	35	mg/kg	07.03.19 22:03	Х
m,p-Xylenes	< 0.00402	0.201	0.132	66	0.127	64	70-130	4	35	mg/kg	07.03.19 22:03	Х
o-Xylene	0.00104	0.101	0.0617	60	0.0597	59	70-130	3	35	mg/kg	07.03.19 22:03	Х
Surrogate				AS Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene			ç	94		97			70-130	%	07.03.19 22:03	
4-Bromofluorobenzene			9	98		97			70-130	%	07.03.19 22:03	

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

Receiv	ed by	CI Kallet 114	Relinquished by: (Signature)	Xenco. A minimum charge	Stice: Signature of this docu	Circle Method(s) a	Total	AM		9055	kass	2055	2020	Ssoi	Sample Identification		Sample Custody Seals:	Cooler Custody Seale:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: R	P.O. Number:	Project Number:	Project Name:	Phone: 4	ate ZIP:		Company Name:			55 of	68
				service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms	ment and relinguishment of sam	Circle Method(s) and Metal(s) to be analyzed				•				5	Matrix		Yes No NIA	es N	10	Temp Blank:	Robert McAfee	2RP-482		JRU DI1 127H	432.704.5178	Midland, TX 79705	3300 North A Street	LT Environmental, Inc., Permian office	Ashley Ager			
			Received by: (Signature)	rd shall not assume any respons project and a charge of \$5 for e	ples constitutes a valid purchas	ed TCLP / SPLP 6010: 8RCRA	111			★ 1240	55 21	1230	1225	04/24/19 1220	Date Time Sampled Sampled		Total Containant		19	Tes No Wet Ice:	Due Date:	6 Rush:	Routine		Email: aa	Ci	Ad		Bi	Midland,T Hobbs,NM (575-392-75	Houston, T	
		06/28/2	Dat	ibility for any losses or ach sample submitted to	e order from client com	<				X A	/ X	1' X	11 1 2	11 1 2	Depth Numb		f Co	onta		(Yes) No	(0,	3 day		Turn Around	Email: ager@ltenv.com rmcafee@ltenv.com	City, State ZIP: C		Company Name: X	Bill to: (if different) K	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX 75-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800	(281) 240-4200 Dalls	0
	6 4	12/9/Pro	Date/Time	expenses incurred by t Xenco, but not analyz	nany fo Yanco ite affili	As Ba Be B As Ba Be Cd			and	XX	XX	XX	× × ×	×	TPH (E BTEX (Chloric	(EPA	0=8	021)	a Black	1172114-100					ncafee@ltenv.con	Carlsbad, NM		XTO-Energy	Kyle Littrel	Paso,TX (915)585-34 355-0900) Atlanta,G/	as, TX (214) 902-0300	Chain of Custody
			Relinquished by (Signature)	ed. These terms will be enforced unit	ilce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco its affiliates and extrement and relinquishment of samples constitutes a valid purchase order from client company to Xenco its affiliates and extrementation its affiliates and extrement	Cd Ca Cr Co Cu Fe Pb Mg		A	X															ANALYSIS REQUEST						Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	intodu
	P	(Conta	Received by: (Signature)	incruits, it assigns standard terms and conditions losses are due to circumstances beyond the control will be enforced unless previously negotlated.		Mo Ni K Se Ag SiO2																		ST	Deliverables: EDD ADaPT	Reporting:Level II evel III ST/UST	State of Project:	Program: UST/PST PRP Brownfields		620-2000) www.xenco.com	Work Order No:	
Revised Date 051418 Rev. 2018.1		06/19/019 12:00	Date/Time		10317240.17747077471:Hg	Sr TI Sn U V Zn							12Journe	discrite	Sample Comments	lab, if received by 4:30pm	TAT starts the day received by the							Work Order Notes	Other:		[Ids RC Tuperfund		Page of	2021200	5

Final 1.000



Inter-Office Shipment

Page 1 of 1

IOS Number 42562

Date/Time: 06/28/19 15:17

Created by: Elizabeth Mcclellan

Please send report to: Jessica Kramer

Lab# From: Carlsbad Delivery Priority:

Lab# To: Midland

Air Bill No.:

Address: 1089 N Canal Street

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
629500-001	S	SS01	06/24/19 12:20	SW8015MOD_NM	TPH by SW8015 Mod	07/05/19	07/08/19	JKR	GRO-DRO PHCC10C28 PH	
629500-001	S	SS01	06/24/19 12:20	E300_CL	Chloride by EPA 300	07/05/19	12/21/19	JKR	CL	
629500-001	S	SS01	06/24/19 12:20	SW8021B	BTEX by EPA 8021B	07/05/19	07/08/19	JKR	BR4FBZ BZ BZME EBZ X	
629500-002	S	SS02	06/24/19 12:25	SW8021B	BTEX by EPA 8021B	07/05/19	07/08/19	JKR	BR4FBZ BZ BZME EBZ X	
629500-002	S	SS02	06/24/19 12:25	SW8015MOD_NM	TPH by SW8015 Mod	07/05/19	07/08/19	JKR	GRO-DRO PHCC10C28 PH	
629500-002	S	SS02	06/24/19 12:25	E300_CL	Chloride by EPA 300	07/05/19	12/21/19	JKR	CL	
629500-003	S	SS03	06/24/19 12:30	SW8015MOD_NM	TPH by SW8015 Mod	07/05/19	07/08/19	JKR	GRO-DRO PHCC10C28 PH	
629500-003	S	SS03	06/24/19 12:30	SW8021B	BTEX by EPA 8021B	07/05/19	07/08/19	JKR	BR4FBZ BZ BZME EBZ X	
629500-003	S	SS03	06/24/19 12:30	E300_CL	Chloride by EPA 300	07/05/19	12/21/19	JKR	CL	
629500-004	S	SS04	06/24/19 12:35	SW8015MOD_NM	TPH by SW8015 Mod	07/05/19	07/08/19	JKR	GRO-DRO PHCC10C28 PH	
629500-004	S	SS04	06/24/19 12:35	E300_CL	Chloride by EPA 300	07/05/19	12/21/19	JKR	CL	
629500-004	S	SS04	06/24/19 12:35	SW8021B	BTEX by EPA 8021B	07/05/19	07/08/19	JKR	BR4FBZ BZ BZME EBZ X	
629500-005	S	SS05	06/24/19 12:40	SW8021B	BTEX by EPA 8021B	07/05/19	07/08/19	JKR	BR4FBZ BZ BZME EBZ X	
629500-005	S	SS05	06/24/19 12:40	SW8015MOD_NM	TPH by SW8015 Mod	07/05/19	07/08/19	JKR	GRO-DRO PHCC10C28 PH	
629500-005	S	SS05	06/24/19 12:40	E300_CL	Chloride by EPA 300	07/05/19	12/21/19	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 06/28/2019

Received By:

tal

Brianna Teel

Date Received: 07/01/2019 07:26

Cooler Temperature: 0.6



ABORATORIES

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 42562

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : R8

Sent By:	Elizabeth McClellan	Date Sent:	06/28/2019 03:17 PM
Received By:	Brianna Teel	Date Received:	07/01/2019 07:26 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

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

NonConformance:

Corrective Action Taken:

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by: Britle Ta

Brianna Teel

Date: 07/01/2019

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC							
Date/ Time Received: 06.28.2019 12.00.00 PM	Air and Metal samples Acceptable Range: Ambient							
Work Order #: 629500	Temperature Measuring device used : T-NM-007							
Sample Recei	pt Checklist Comments							
#1 *Temperature of cooler(s)?	4							
#2 *Shipping container in good condition?	Yes							
#3 *Samples received on ice?	Νο							
#4 *Custody Seals intact on shipping container/ cooler?	Νο							
#5 Custody Seals intact on sample bottles?	Νο							
#6*Custody Seals Signed and dated?	N/A							
#7 *Chain of Custody present?	Yes							
#8 Any missing/extra samples?	Νο							
#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)?	Yes Subbed to Xenco Midland.							
#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: Elizabeth McClellan
Checklist reviewed by: Jessica Vramer

Date: 06.28.2019

Jessica Kramer

Date: 07.01.2019