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	NRM2028336147
District RP	
Facility ID	
Application ID	

Release Notification

			Resp	onsible Part	y		
Responsible	Party XTC) Energy		OGRID	5380		
Contact Name Kyle Littrell				Contact T	Contact Telephone 432-221-7331		
Contact ema	il Kyle_Lit	ttrell@xtoenergy.c	om	Incident #	(assigned by OCD)		
Contact mail	ling address	522 W. Mermod	, Carlsbad, NM 88	220			
22	15560		Location	of Release S			
Latitude 32.	15563			Longitude	-103.78444		
			(NAD 83 in dec	imal degrees to 5 deci	mal places)		
Site Name I	PLU 303 CT	В		Site Type	Central Tank Battery		
Date Release	Discovered	9/26/2020		API# (if ap	plicable)		
Unit Letter	Section	Township	Range	Cou	nty		
N	4	258	31E	Edo			
Surface Owne		Federal Tr	Nature and	Volume of	Release c justification for the volumes provided below)		
Crude Oi		Volume Release		edicatedona or append	Volume Recovered (bbls)		
➤ Produced	Water	Volume Release	d (bbls) 260.43		Volume Recovered (bbls) 260		
		I .	ion of total dissolv water >10,000 mg	` '	☐ Yes ☐ No		
Condensa	ate	Volume Release	d (bbls)		Volume Recovered (bbls)		
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units			Released (provide	units)	Volume/Weight Recovered (provide units)		
Cause of Rel	ease A valve A third	e failed to open cau party contractor w	ising the flange ga ill be retained for	sket to fail releasi all remediation ac	ng fluids into lined containment and onto ground surface. etivities.		

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NRM2028336147
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	• •
release as defined by	A release of fluids greater than 25 barrels.	
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
765 🗀 110		
If YES, was immediate n	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
		EMNRD'; 'Venegas, Victoria, EMNRD'; 'Griswold, Jim, EMNRD';
'BLM_NM_CFO_Spill@	blm.gov'; 'Morgan, Crisha A' on Sunday, Se	eptember 27, 2020 10:17 AM via email.
	Initial R	osnonso
	Illitial K	esponse
The responsible	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
The source of the rele	aga has been stenned	
l	• •	
The impacted area ha	is been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have not been undertaken, explain	why
	d above have <u>not</u> occir undertaken, explain	wny.
N/A		
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred
within a lined containmen	In tarea (see 19.15.29.11(A)(5)(a) NMAC), p	please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition. OCD acceptance of	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.		
Brintad Nama, Kyle Litti	rell 💂	Title: SH&E Supervisor
Printed Name: Kyle Little		Title:
Signatura	2011	Date: 10-9-20
Signature	(and	· · · · · · · · · · · · · · · · · · ·
email: Kyle_Littrell@xto	benergy.com	Telephone: 432-221-7331
		
OCD O. I.		
OCD Only		H
Received by: Rame	ona Marcus	Date: 10/09/2020

NRM2028336147

Location:	PLU 303 CTB		
Spill Date:	9/26/2020		
	Area 1		
Approximate A	rea =	166.00	sq. ft.
Average Satura	tion (or depth) of spill =	5.00	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Produced	Water =	0.37	bbls
	Area 2		
Approximate A	rea =	1128.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.13	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Produced	Water =	0.06	bbls
	Area 3		
Approximate A	rea =	1459.80	cu. ft.
Average Satura	tion (or depth) of spill =	0.00	inches
Average Porosi	ty Factor =	0.00	
	VOLUME RECOVERED		
Total Produced	Water =	260.00	bbls
	TOTAL VOLUME OF LEAK		
Total Produced	Water =	260.43	bbls
	TOTAL VOLUME RECOVERED		
Total Produced	Water =	260.00	bbls

te of New Mexico Incident ID NRM2028336147

Incident ID	NRM2028336147
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Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🛛 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver	rtical extents of soil

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

•
Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☐ Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-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: 12/23/2020 8:06:26 AM
Form C-141 State of New Mexico
Page 4 Oil Conservation Division

	Page 5 of 167
Incident ID	NRM2028336147
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. SH&E Supervisor **Printed Name:** Title: 12/17/2020 Signature: Date: Littrell@xtoenergy.com Telephone: 432-221-7331 **OCD Only** Received by: Cristina Eads Date: 12/23/2020

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Page 6 of 167

Incident ID NRM2028336147

District RP
Facility ID

Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

☐ Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC I	District office must be notified 2 days prior to final sampling)
☑ Description of remediation activities	
and regulations all operators are required to report and/or file certain in may endanger public health or the environment. The acceptance of a C should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a C compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the impacted surface area to the conductor accordance with 19.15.29.13 NMAC including notification to the OC Printed Name:	C-141 report by the OCD does not relieve the operator of liability ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in D when reclamation and re-vegetation are complete. Title: SH&E Supervisor
	te:
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by: Cristina Eads	Date: 12/23/2020
	Fliability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date:04/08/2021
Printed Name: Cristina Eads	Title: Environmental Specialist
<u> </u>	

wsp

WSP USA

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

December 21, 2020

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request
PLU 303 CTB
Incident Number NRM2028336147
Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP). (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Poker Lake Unit (PLU) 303 CTB (Site) in Unit N, Section 4, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and results of the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NRM2028336147.

RELEASE BACKGROUND

On September 26, 2020, a valve failed to open causing the flange gasket to fail and resulting in the release of 260.43 barrels (bbls) of produced water onto the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, approximately 260 bbls of produced water were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on September 27, 2020. A Release Notification and Corrective Action Form (Form C-141) was submitted on October 9, 2020 and was assigned Incident Number NRM2028336147.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) well 321034103465501, located approximately 1.5 miles north of the Site. The groundwater well has a reported depth to groundwater of 474 feet bgs and a total depth of 740 feet bgs. Within a 3-



mile radius there are 6 groundwater wells that indicate regional depth to water is greater than 350 feet bgs. The second closest groundwater well with data is USGS well 320952103444401, located approximately 2.4 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 406 feet bgs and the total depth is unknown, depth to water was last measured in January 1998. The closest New Mexico Office of the State Engineer (NMOSE) groundwater well is C-03891, located 2.5 miles west of the Site. The groundwater well has a reported depth to groundwater of 429 feet bgs and a total depth of 635 feet bgs, depth to water was most recently measured in November 2015.

During October 2020, in an effort to confirm depth to water in the area, a borehole (C-4479) was advanced to a depth of 110 feet bgs via truck-mounted hollow stem auger. The borehole was located approximately 3,585 feet northwest of the Site. The location of borehole BH01 (C-4479) is provided on Figure 1. A WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. On October 13, 2020, after the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned utilizing hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Attachment 1. Depth to water data are available in every direction surrounding the Site and indicate depth to water is greater than 100 feet. The available data consistently exceed 300 feet and 400 feet in depth, with no data points less than 318 feet.

The closest continuously flowing water or significant watercourse to the Site is an emergent wetland, located approximately 1 mile south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg



Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On October 1, 2020, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected three preliminary assessment soil samples (SS01 through SS03) within the release extent, from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) and are presented on Figure 2.

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

Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SS01 and SS02. Laboratory analytical results indicated that chloride concentrations exceeded the Closure Criteria in preliminary soil sample SS03. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between October 26, 2020 and November 24, 2020, WSP personnel were at the Site to oversee delineation and excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples.

Boreholes BH01 through BH07 were advanced via hand auger to depths ranging from 1 foot to 4 feet bgs within and around the release extent to assess the lateral and vertical extent of impacted soil. Delineation soil samples were collected from each borehole from depths ranging from 1 foot to 4 feet bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach© chloride QuanTab© test strips, respectively. Field screening results and observations for each borehole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The boreholes and delineation soil sample locations are presented on Figure 3. The delineation soil samples were collected, handled, and analyzed as described



above at Xenco in Carlsbad, New Mexico. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 3.

Based on field screening activities and laboratory analytical results for the preliminary and delineation soil samples, excavation activities were completed to remove the impacted soil. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to depths ranging from 0.5 feet to 1 foot bgs. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS12, FS01A, FS05A, FS06A, FS09A, and FS12A were collected from the floor of the excavation. The floor samples were collected from depths ranging from 0.5 feet to 1 foot bgs. Due to the shallow depth of the excavation, the floor samples were also representative of the excavation sidewalls. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The final excavation extent measured approximately 2,300 square feet. A total of approximately 63 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After the completion of confirmation sampling, the excavation was secured with fencing.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 and SS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil sample SS03 indicated that chloride concentrations exceeded the Closure Criteria.

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH07 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for excavation floor samples FS01A, FS02, FS03, FS04, FS05A, FS06A, FS07, FS08, FS09A, FS10, FS11, and FS12A, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for excavation floor samples FS01, FS05, FS06, FS09, and FS12 indicated that chloride concentrations initially exceeded the Closure Criteria. Additional soil was removed from these areas and subsequent floor samples FS01A, FS05A,



FS06A, FS09A, and FS12A were compliant. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 26, 2020 release of produced water. Based on the laboratory analytical results for the preliminary soil samples, impacted soil was excavated. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Results from excavation confirmation samples concluded that all impacted soil was removed. Additional samples were collected outside of the release footprint and results confirmed the extent of the release as mapped and excavated. Based on the excavation soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. As such, XTO respectfully requests NFA for Incident Number NRM2028336147.

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

Sincerely,

WSP USA Inc.

Elizabeth Naka

Assistant Consultant, Environmental Scientist

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Kyle Littrell, XTO

Elizabeth Naha

Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Jim Amos, Bureau of Land Management

Attachments:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations

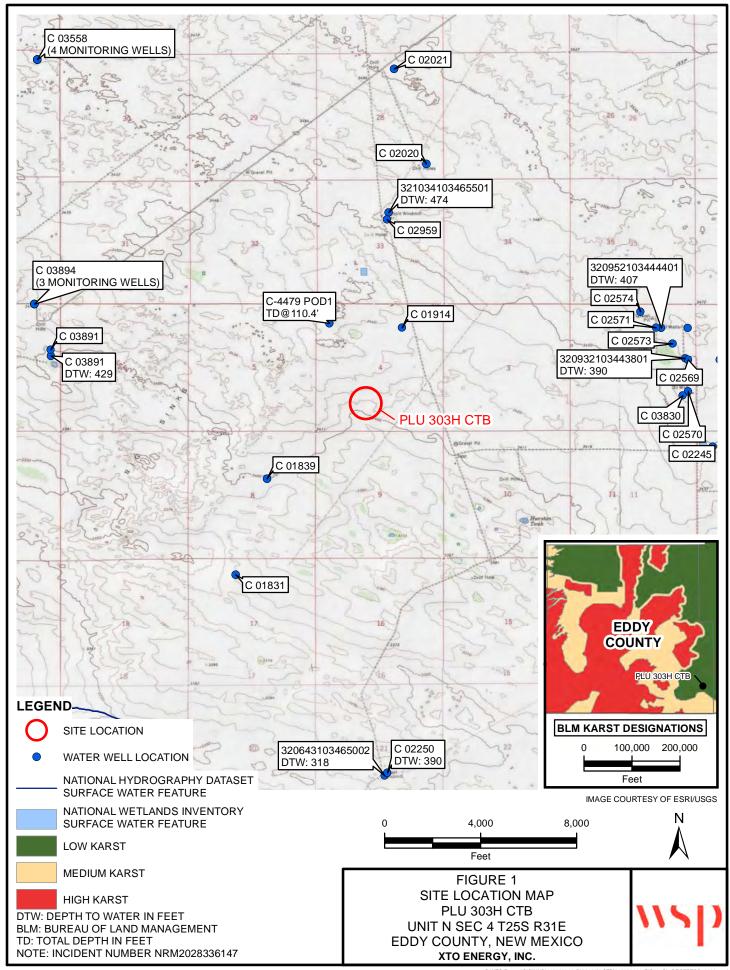


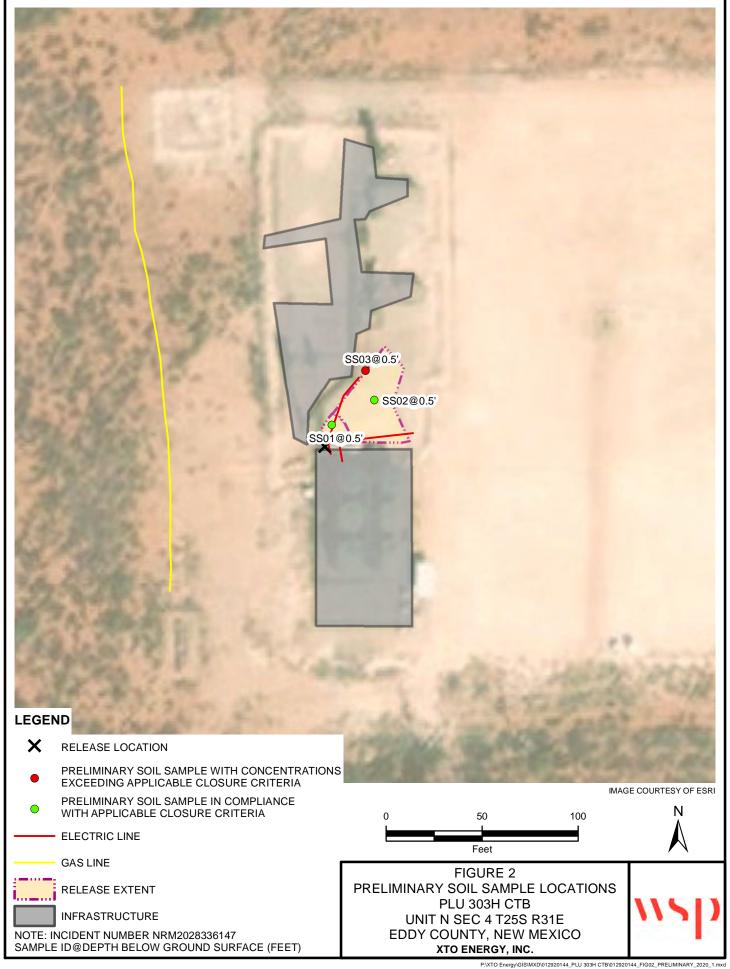
Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations

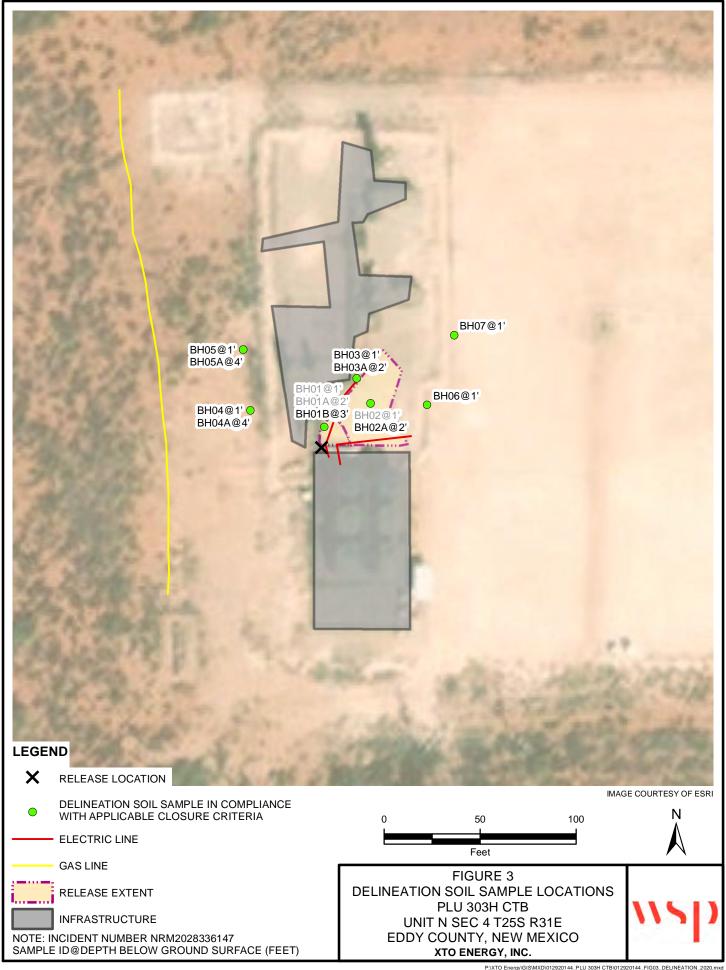
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/ Soil Sampling Logs

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports







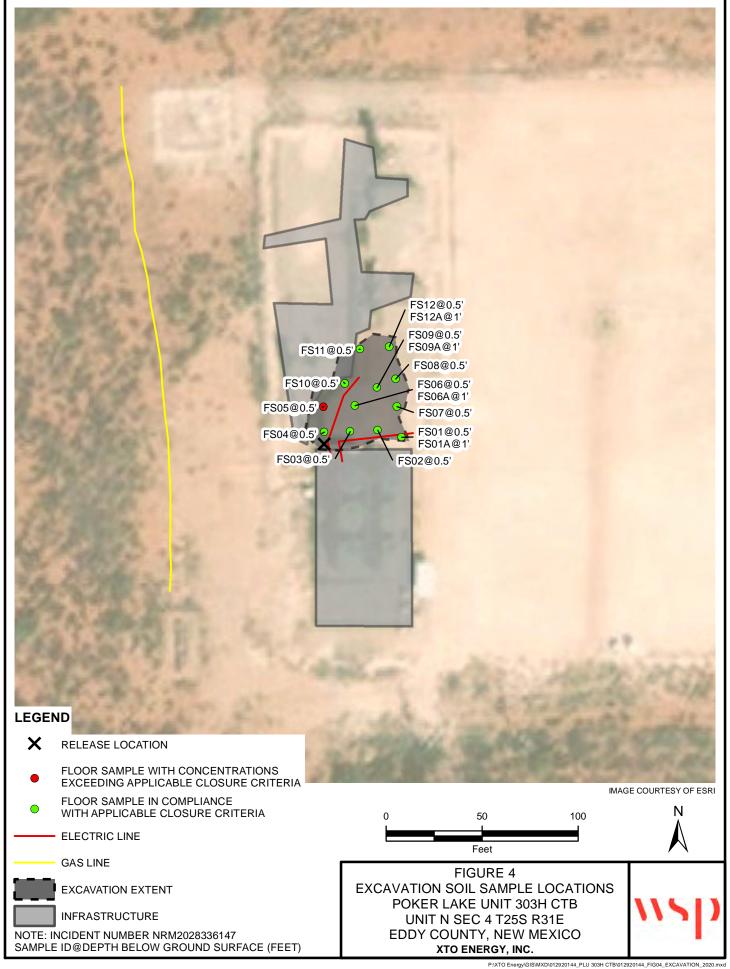


Table 1

Soil Analytical Results PLU 303 CTB Incident Number NRM2028336147 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM.	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	10/01/2020	0.5	< 0.00200	< 0.00200	< 50.1	< 50.1	< 50.1	<50.1	<50.1	15,900
SS02	10/01/2020	0.5	< 0.00200	< 0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	15,300
SS03	10/01/2020	0.5	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	21,000
Delineation Samples	S									
BH01	10/26/2020	1	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	5,580
BH01A	10/26/2020	2	< 0.00198	< 0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	4,390
BH01B	11/02/2020	3	< 0.00200	< 0.00200	< 50.0	< 50.0	<50.0	<50.0	<50.0	49.8
BH02	10/26/2020	1	< 0.00200	< 0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	196
BH02A	10/26/2020	2	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	69.9
BH03	10/26/2020	1	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	71.8
BH03A	10/26/2020	2	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	57.8
BH04	10/26/2020	1	< 0.00202	< 0.00202	<50.0	< 50.0	<50.0	<50.0	<50.0	<9.98
BH04A	10/26/2020	4	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	88.4
BH05	10/26/2020	1	< 0.00198	< 0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	23.5
BH05A	10/26/2020	4	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	61.2
BH06	10/26/2020	1	< 0.00199	< 0.00199	<50.0	< 50.0	<50.0	<50.0	<50.0	17.1
BH07	10/26/2020	1	< 0.00200	< 0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	24.8
Excavation Floor Sa	mples									
FS01	10/26/2020	0.5	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	35,900
FS01A	11/02/2020	1	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	5,710
FS02	10/26/2020	0.5	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	5,930

Table 1

Soil Analytical Results PLU 303 CTB Incident Number NRM2028336147 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS03	10/26/2020	0.5	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	< 50.0	< 50.0	12,300
FS04	10/26/2020	0.5	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	18,100
FS05	10/26/2020	0.5	< 0.00202	< 0.00202	< 50.1	< 50.1	<50.1	< 50.1	< 50.1	20,000
FS05A	11/24/2020	1	< 0.00200	< 0.002000	<49.8	<49.8	<49.8	<49.80	<49.80	3,860
FS06	10/26/2020	0.5	< 0.0000198	< 0.0000198	<50.3	<50.3	<50.3	<50.3	<50.3	21,000
FS06A	11/02/2020	1	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	4,900
FS07	10/26/2020	0.5	< 0.00202	< 0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	2,270
FS08	10/26/2020	0.5	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,820
FS09	10/26/2020	0.5	< 0.00198	< 0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	22,300
FS09A	11/02/2020	1	< 0.00200	< 0.00200	<50.2	<50.2	<50.2	<50.2	< 50.2	8,810
FS10	10/26/2020	0.5	< 0.00199	< 0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	19,400
FS11	10/26/2020	0.5	< 0.00200	< 0.00200	81.2	<49.9	<49.9	81.2	81.2	16,400
FS12	10/26/2020	0.5	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	20,300
FS12A	11/02/2020	1	< 0.00199	< 0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	2,500

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

Text impacts to soil have been removed

eceive	ed by OC	CD: 12/2	23/2020	0 8:06:20		110.5			BH or PH Name:	Date:	Page 2			
7	7.		7		WSP	USA			C-4479 POD 1	10/8/2020				
				508	8 West Ste	vens Stre	eet		Site Name: PLU 147					
				Carlst	B West Ste bad, New I	Mexico 8	8220		RP or Incident Number: NRM2004445859					
									LTE Job Number: TE01292		•			
		TTTT	OI OC	IC /SOT	I CANADI	INCLO	YC.							
I c+/T	na:	LIIH	ULUG	10 / 301	L SAMPI Field Scree		ЛG		Logged By: WM	Method: HAS				
Lat/Lo 32.164	ng: 1634,-103.7	89456			Chloride, F	-			Hole Diameter: 8 1/4'	Total Depth: 110.4'				
Comm					Chioride, F	w			U 1/T	110.4				
							¥							
ture ent	Chloride (ppm)	or n)	Staining	Sample #	Sample	Depth	USCS/Rock Symbol							
Moisture Content	Chloride (ppm)	Vapor (ppm)	ain	dw	Depth	(ft bgs)	CS/.		Lithology/Remarks					
ΣΩ	ט ט		St	Sa	(ft bgs)	6/	USC							
					+ ,	0	·	SAND 4	ry, red-brown, medium	grained wall graded	few clay no stein			
					1 1	ட ்	SWSC	no odor	ry, rea-orown, meanum	grameu, wen graueu,	, iew ciay, no stalli,			
					-	4	ССНЕ		E/with gravel, dry, tan-	brown, poorly consol	idated, no stain,			
								no odor	<u> </u>		,			
					-	L								
					-	10								
					-	-								
					-	-								
					-	_								
					_	20	SWSM		noist, red-brown, some	silt, well graded, med	ium grainded, no			
] -			stain, no	odor					
					_	L 34	- CT	CT AT	• , • •	111 1 1 1	1			
					-	- 24	CL		noist, maroon, cohesive	e, high plasticity, trace	sand, no stain, no			
								odor						
					_	35	SPSC	SAND, n	noist, red, fine grained,	poorly graded, some	clay, no stain, no			
					_	L		odor	-					
						4.0	CIV.CI.	0.1375			C 21.			
					-	_ 40	SWSM		noist, brown-red, large	grained, well graded,	few silt, no stain,			
					-	-		no odor						
					-	 								
					-									
						50								
					-	L								
					-	54	SWSC		SAND, moist, brown-red, medium grained, well graded, some clay, no					
					-	60		odor, no	staill					
					-	- 55								
					-	_								
] -	70								
					-	<u> </u>								
					-	-								
					-	80								
					-	- 50								
					-	–	SWSC	grain size	shift to large					
					-									
	T 90 SWSC calic						C caliche fragments present							
					-	100								
					-	100								
					-	 								
ì														



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- NOTICE 09-08-2020: The <u>NWIS Mapper</u> is experiencing intermittent issues.
 Developers are looking into the problem. Thank you for your patience.
- Full News <a>S

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

321034103465501

Minimum number of levels = 1

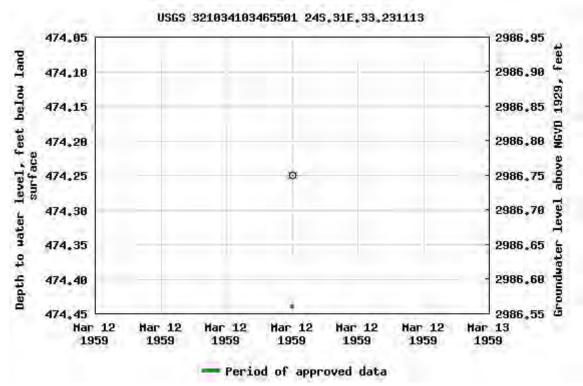
Save file of selected sites to local disk for future upload

USGS 321034103465501 24S.31E.33.231113

Available data for this site	Groundwater:	Field measurements	∨ GO
Eddy County, New Mexico			
Hydrologic Unit Code 1307	'0001		
Latitude 32°10'38.2", Lon	gitude 103°	°46'53.0" NAD83	
Land-surface elevation 3,4	61.00 feet	above NGVD29	
The depth of the well is 74	0 feet belov	w land surface.	
This well is completed in tl	he Rustler F	formation (312RS	LR) local aquifer.
	_		

Output formats

<u>Table of data</u>										
<u>Tab-separated data</u>										
Graph of data										
Reselect period										



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-09-30 18:33:35 EDT

0.7 0.59 nadww01





New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

C 03891 POD1

4 4 2 01 25S 30E

A Y

3558890

Driller License: 1723

.723

Driller Company:

SBQ2, LLC DBA STEWART BROTHERS DRILLING

CO.

Driller Name:

Drill Start Date:

11/10/2015

Drill Finish Date:

11/14/2015

Plug Date:

Estimated Yield: 33 GPM

Tiug Date.

Log File Date:

12/04/2015

6.13

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type: Casing Size:

Pipe Discharge Size:

635 feet **Depth Water:**

610608

429 feet

Water Bearing Stratifications:

Top	Bottom	Description
420	450	Sandstone/Gravel/Conglomerate
450	460	Sandstone/Gravel/Conglomerate
460	490	Sandstone/Gravel/Conglomerate
490	500	Sandstone/Gravel/Conglomerate
500	530	Sandstone/Gravel/Conglomerate
530	635	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

460 635

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

12/17/20 7:29 AM

POINT OF DIVERSION SUMMARY

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220									BH or PH Name: Date: BH01			
									_TE Job Number:	12920144		
1 - 1/1 -		LITH	OLOG	SIC / SOIL			G		Logged By TC and Hole Diameter:	EN	Method: Hand Auger	
Lat/Lo	Lat/Long: Field Screening: Chloride, PID										Total Depth: 3'	
Comments:												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lithology/Remarks			
					1	0						
M	7,227	0.0	Ν	BH01		1	SU/SP	Tan/brow	n, moist, sandy	/caliche		
М	6,136	0.0	N	BH01A	-	2	SP/SC	Red-brow	n, moist			
M	<180	0.0	N	BH01B	-	3		brown sa TD @ 3'	nd, moist			

) OLOG	5 Carl	08 West S sbad, Nev	ING LO	-	BH or PH Name: BH02 Site Name: RP or Incident Numbe LTE Job Number: Logged By TC Hole Diameter:		Date: 10/26/2020 e Unit 303H CTB NRM2028336147 Method: Hand Auger Total Depth:			
Lat/Long: Field Screening: Chloride, PID									noie Diameter.		2'		
Comn	nents:												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/Remarks				
					1	0							
M	207	0.0	Ν	BH02	_	1	SW/SP	Tan/brow	n, moist, sandy/ca	aliche			
М	168	0.0	N	BH02A	-	2	SP/SC	Red-brow	vn, moist, sandy				
101	100	0.0		BITOLI	-	<u>-</u>	01700	TD @ 2' I	ogs				

Lat/Lo	ong:) OLOG	5 Car GIC / SOIL	08 West S sbad, Ne SAMPL Field Scre	ING LO		BH or PH Name: BH03 Site Name: RP or Incident Numb LTE Job Number: Logged By TC Hole Diameter:		Method: Hand Auger Total Depth:		
Chloride, PID Comments:											2'	
Moisture Content		Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/Remarks			
M M	672 425	0.0 0.0	S Z Z	BH03 BH03A	(ft bgs)	0 1 2 - 2	SW/SP		vn, moist, sandy/o	caliche		

Lat/Lo	ong:	L		5 Carl	08 West S sbad, Ne	ING LO		BH or PH Name: BH04 Site Name: RP or Incident Number: LTE Job Number: Logged By TC Hole Diameter:		Date: 10/26/2020 e Unit 303H CTB NRM2028336147 Method: Hand Auger Total Depth:		
Chloride, PID Comments:											4'	
Comm	ienis.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/Remarks			
					1	0						
М	168	0.0	Ν	BH04	_	1	SP/SC	Reddish	brown, moist, sar	ndy		
М	168	0.0	N		-	2	SP/SC	Same as	above (SAA)			
М	168	0.0	Ν		-	3	SP/SC					
М	207	0.0	N	BH04A	-	4	SP/SC					
IVI	207	0.0	IN	БП04А	_	_ 4	37/30	TD @ 4'	bgs			

	\\ ')		08 West S sbad, Ne		E 3 1	BH or PH Name: BH05 Site Name: RP or Incident Nu LTE Job Number:	Poker Lake mber: 12920144	Date: 10/26/2020 e Unit 303H CTB NRM2028336147		
Lat/Lo		LITH	OLOG	SIC / SOIL	SAMPL Field Scre		G		Logged By TC Hole Diameter:		Method: Hand Auger	
Lat/LC	ong:				Chloride, I			ľ	Hole Diameter:		Total Depth: 4'	
Comn	Comments:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/Remarks			
					I	0						
D	168	0.0	N	BH05	-	1	SW/SP	Reddish I	orown, tan, dry	/, sandy/grav	/el	
D	207	0.0	N			2			above (SAA)	_		
D	207	0.0	IN		_	_						
D/M	207	0.0	Ν		_	3	SP/SC	Reddish I	orown, dry top	, moist botto	m, sandy	
М	240	0.0	Ν	BH05A	-	4	SP/SC		orown, moist,	sandy		
								TD @ 4' k	ogs			

Lat/Lo			OLOG	5 Car GIC / SOIL	08 West S Isbad, Ne	ING LO		RP or Incident Number:	Poker Lake :	Date: 10/26/2020 Unit 303H CTB NRM2028336147 Method: Hand Auger Total Depth: 1'		
Moisture Content							Lithology/Remarks					
D/M	207	0.0	Z	BH06				tan/brow	n, dry and moist, sa	andy		

Lat/Lo) OLOG	SIC / SOIL	08 West S sbad, Ne	ING LO	BH or PH Name: BH07 Site Name: RP or Incident Number LTE Job Number: Logged By TC Hole Diameter:		Date: 10/26/2020 e Unit 303H CTB NRM2028336147 Method: Hand Auger Total Depth: 1'			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lithology/Remarks			
D/M	285	0.0	Z	BH07			SW/SP	tan/brow	n, dry and moist, bgs	sandy/gra	avel	



PHOTOGRAPHIC LOG			
XTO Energy	PLU 303 CTB	NRM2028336147	
	Eddy County, New Mexico		

Photo No. Date

October 1, 2020 1

View of staining on pad facing West.



Photo No. Date 2

October 1, 2020

View of staining on pad facing Northwest.





PHOTOGRAPHIC LOG			
XTO Energy	PLU 303 CTB	NRM2028336147	
	Eddy County, New Mexico		

Photo No. Date

3 October 26, 2020

View of excavation facing Southwest.



Photo No.	Date	
4	November 2, 2020	
View of further execution around		

View of further excavation around FS06, FS09, and FS12 facing South.



eurofins Environment Testing

Page 38 of 167

Certificate of Analysis Summary 674085

LT Environmental, Inc., Arvada, CO

Project Id:

Contact:

012920144

Project Name: PLU 303 H CTB

Dan Moir

Date Received in Lab: Thu 10.01.2020 11:33 **Report Date:** 10.07.2020 10:31

Eddy County Project Location:

Project Manager: Jessica Kramer

	Lab Id:	674085-0	001	674085-0	002	674085-0	003		
Analysis Requested	Field Id:	SS01		SS02		SS03			
Analysis Requested	Depth:	0.5-		0.5-		0.5-			
	Matrix:	SOIL	,	SOIL		SOIL			
	Sampled:	10.01.2020	09:25	10.01.2020	09:30	10.01.2020	09:35		
BTEX by EPA 8021B	Extracted:	10.02.2020	10:14	10.02.2020	10:14	10.02.2020	10:14		
	Analyzed:	10.02.2020	20:30	10.02.2020	20:53	10.02.2020	21:15		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202		
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202		
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202		
m,p-Xylenes		< 0.00400	0.00400	< 0.00399	0.00399	< 0.00404	0.00404		
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202		
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202		
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202		
Chloride by EPA 300	Extracted:	10.02.2020	14:20	10.02.2020	14:20	10.02.2020	14:20		
	Analyzed:	10.02.2020	17:28	10.02.2020	17:34	10.02.2020	17:39		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		15900	200	15300	198	21000	200		
TPH by SW8015 Mod	Extracted:	10.02.2020	10:00	10.02.2020	10:00	10.02.2020	10:00		
	Analyzed:	10.02.2020	16:06	10.02.2020	16:26	10.02.2020	16:54		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.1	50.1	<50.3	50.3	<49.8	49.8		
Diesel Range Organics (DRO)		< 50.1	50.1	<50.3	50.3	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		< 50.1	50.1	<50.3	50.3	<49.8	49.8		
Total GRO-DRO		< 50.1	50.1	<50.3	50.3	<49.8	49.8		
Total TPH		< 50.1	50.1	< 50.3	50.3	<49.8	49.8		

BRL - Below Reporting Limit

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

Jessica Vramer



Analytical Report 674085

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303 H CTB 012920144 10.07.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



10.07.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 674085

PLU 303 H CTB

Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674085. 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 Eurofins Xenco, LLC. 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. 674085 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	10.01.2020 09:25	0.5	674085-001
SS02	S	10.01.2020 09:30	0.5	674085-002
SS03	S	10.01.2020 09:35	0.5	674085-003

CASE NARRATIVE

eurofins
Environment Testing
Xenco

Client Name: LT Environmental, Inc.

Project Name: PLU 303 H CTB

 Project ID:
 012920144
 Report Date:
 10.07.2020

 Work Order Number(s):
 674085
 Date Received:
 10.01.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Page 43 of 167

Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id: SS01

Matrix: Soil

Date Received:10.01.2020 11:33

Lab Sample Id: 674085-001

Date Collected: 10.01.2020 09:25

Sample Depth: 0.5

Analytical Method: Chloride by EPA 300

ъ.

Prep Method: E300P

Tech:

Analyst:

MAB MAB

Date Prep: 10.02.2020 14:20

% Moisture:

Seq Number: 3138826

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15900	200	mg/kg	10.02.2020 17:28		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

Analyst: DTH
Seq Number: 3138732

Date Prep: 10

10.02.2020 10:00 % M

% Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	10.02.2020 16:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	10.02.2020 16:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	10.02.2020 16:06	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	10.02.2020 16:06	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	10.02.2020 16:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	101	%	70-135	10.02.2020 16:06
o-Terphenyl	84-15-1	99	%	70-135	10.02.2020 16:06

Environment Testing

Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id: **SS01** Matrix: Soil Date Received:10.01.2020 11:33

Lab Sample Id: 674085-001

Date Collected: 10.01.2020 09:25

Sample Depth: 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

MAB

Date Prep: 10.02.2020 10:14 % Moisture:

Seq Number: 3138758

Analyst:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.02.2020 20:30	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.02.2020 20:30	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.02.2020 20:30	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.02.2020 20:30	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.02.2020 20:30	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.02.2020 20:30	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.02.2020 20:30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	70-130	10.02.2020 20:30		
1,4-Difluorobenzene		540-36-3	101	%	70-130	10.02.2020 20:30		

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id:

SS02

Matrix:

Soil

Date Received:10.01.2020 11:33

Lab Sample Id: 674085-002

Date Collected: 10.01.2020 09:30

Sample Depth: 0.5

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

MAB

Date Prep:

10.02.2020 14:20

% Moisture:

Basis:

Wet Weight

Seq Number: 3138826

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15300	198	mg/kg	10.02.2020 17:34		20

Analytical Method: TPH by SW8015 Mod

Tech:

Tech:

Analyst:

DTH

DTH Analyst: Seq Number: 3138732

Date Prep:

10.02.2020 10:00

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.3	50.3		mg/kg	10.02.2020 16:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	10.02.2020 16:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	10.02.2020 16:26	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	10.02.2020 16:26	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	10.02.2020 16:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	101	%	70-135	10.02.2020 16:26
o-Terphenyl	84-15-1	96	%	70-135	10.02.2020 16:26

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id: **SS02**

Seq Number: 3138758

Matrix: Soil Date Received:10.01.2020 11:33

Lab Sample Id: 674085-002

Date Collected: 10.01.2020 09:30

Sample Depth: 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: MAB

MAB

Date Prep: 10.02.2020 10:14 % Moisture:

Basis:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	mg/kg	10.02.2020 20:53	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 20:53	
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.02.2020 20:53	

Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id: **SS03** Matrix:

Date Received:10.01.2020 11:33

Lab Sample Id: 674085-003

Soil Date Collected: 10.01.2020 09:35

Sample Depth: 0.5

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

MAB

Date Prep:

% Moisture: 10.02.2020 14:20

Basis: Wet Weight

Seq Number: 3138826

Tech:

Analyst:

Analysis Date Parameter Cas Number Result RLUnits Flag Dil Chloride 16887-00-6 21000 10.02.2020 17:39 20 200 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

DTH Analyst: Seq Number: 3138732

Date Prep: 10.02.2020 10:00 % Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.02.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.02.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.02.2020 16:54	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	10.02.2020 16:54	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.02.2020 16:54	U	1
Surrogate	C	as Number 9	& Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	101	%	70-135	10.02.2020 16:54
o-Terphenyl	84-15-1	102	%	70-135	10.02.2020 16:54

Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id: **SS03** Matrix: Soil

Date Prep:

Date Received:10.01.2020 11:33

Lab Sample Id: 674085-003

Date Collected: 10.01.2020 09:35

Sample Depth: 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

MAB

10.02.2020 10:14

% Moisture:

Analyst: Seq Number: 3138758

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.02.2020 21:15	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.02.2020 21:15	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.02.2020 21:15	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	10.02.2020 21:15	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.02.2020 21:15	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.02.2020 21:15	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.02.2020 21:15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	10.02.2020 21:15		
4-Bromofluorobenzene		460-00-4	91	%	70-130	10.02.2020 21:15		



Flagging Criteria

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

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

Flag

Flag

Analysis

QC Summary 674085

LT Environmental, Inc.

PLU 303 H CTB

LCSD

LCSD

Analytical Method: Chloride by EPA 300

Seq Number: 3138826

Matrix: Solid

E300P Prep Method:

Prep Method:

Prep Method:

Date Prep: 10.02.2020

E300P

E300P

7712536-1-BLK LCS Sample Id: 7712536-1-BKS LCSD Sample Id: 7712536-1-BSD MB Sample Id: LCS RPD MB Spike LCS Limits %RPD Units

Parameter Result Amount Result %Rec Result %Rec Limit Date

Chloride <10.0 250 250 100 251 90-110 0 20 10.02.2020 13:59 100 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3138826 Matrix: Soil Date Prep: 10.02.2020

674037-005 S 674037-005 MS Sample Id: MSD Sample Id: 674037-005 SD Parent Sample Id:

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

10.02.2020 14:16 Chloride 27.9 200 226 99 226 99 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

3138826 Seq Number: Matrix: Soil Date Prep: 10.02.2020

MS Sample Id: 674037-015 S MSD Sample Id: 674037-015 SD Parent Sample Id: 674037-015

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 199 20 10.02.2020 16:39 123 311 94 312 95 90-110 0 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3138732 Matrix: Solid Seq Number: Date Prep: 10.02.2020

MB Sample Id: 7712528-1-BLK LCS Sample Id: 7712528-1-BKS LCSD Sample Id: 7712528-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis

Parameter Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 10.02.2020 10:04 92 35 < 50.0 1000 921 906 91 70-135 2 mg/kg 10.02.2020 10:04 Diesel Range Organics (DRO) 1030 103 948 95 70-135 8 35 < 50.0 1000 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag 10.02.2020 10:04 1-Chlorooctane 95 115 111 70-135 %

10.02.2020 10:04 o-Terphenyl 90 104 96 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: 3138732 Matrix: Solid Date Prep: 10.02.2020

Seq Number: MB Sample Id: 7712528-1-BLK

MBUnits Analysis Flag **Parameter** Result Date

Motor Oil Range Hydrocarbons (MRO) 10.02.2020 13:05 < 50.0 mg/kg

Flag

Flag

QC Summary 674085

LT Environmental, Inc.

PLU 303 H CTB

Analytical Method: TPH by SW8015 Mod

Seg Number: 3138732

674037-017

Matrix: Soil

Prep Method:

SW8015P

Date Prep:

10.02.2020

Parent Sample Id:

MS Sample Id: 674037-017 S MSD Sample Id: 674037-017 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.8 995 1030 104 35 10.02.2020 11:25 1020 102 70-135 1 mg/kg 10.02.2020 11:25 Diesel Range Organics (DRO) <49.8 995 1130 114 1110 70-135 2 35 mg/kg 111

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 10.02.2020 11:25 1-Chlorooctane 125 123 70-135 % 10.02.2020 11:25 o-Terphenyl 112 111 70-135 %

Analytical Method: BTEX by EPA 8021B

Seq Number:

MB Sample Id:

3138758

7712548-1-BLK

Matrix: Solid

Prep Method:

SW5035A

Date Prep: 10.02.2020

LCS Sample Id: 7712548-1-BKS LCSD Sample Id: 7712548-1-BSD

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 10.02.2020 11:32 < 0.00200 0.100 0.106 106 0.117 70-130 10 35 Benzene 117 mg/kg 10.02.2020 11:32 Toluene < 0.00200 0.100 0.102 102 0.112 112 70-130 9 35 mg/kg 10.02.2020 11:32 0.100 0.0939 94 0.103 103 71-129 9 35 Ethylbenzene < 0.00200 mg/kg 10.02.2020 11:32 < 0.00400 0.200 0.188 94 0.206 103 70-135 9 35 m,p-Xylenes mg/kg 10.02.2020 11:32 < 0.00200 0.100 0.0929 93 0.102 102 71-133 9 35 o-Xylene mg/kg

Limits MB MB LCS LCS LCSD LCSD Units Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 10.02.2020 11:32 1,4-Difluorobenzene 99 99 98 70-130 % 10.02.2020 11:32 89 91 88 % 4-Bromofluorobenzene 70-130

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138758 Parent Sample Id:

674155-001

Matrix: Soil

MS Sample Id: 674155-001 S

Prep Method:

SW5035A

Date Prep:

10.02.2020

MSD Sample Id: 674155-001 SD

RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis Flag **Parameter** Limit Date Result Amount Result %Rec %Rec Result 10.02.2020 12:17 < 0.00200 0.100 0.114 114 0.126 70-130 10 35 Benzene 126 mg/kg 10.02.2020 12:17 70-130 35 Toluene < 0.00200 0.100 0.110110 0.121 121 10 mg/kg Ethylbenzene < 0.00200 0.100 0.101 101 0.111 111 71-129 9 35 10.02.2020 12:17 mg/kg 35 10.02.2020 12:17 m,p-Xylenes < 0.00400 0.200 0.202 101 0.223 112 70-135 10 mg/kg < 0.00200 0.100 0.101 101 0.111 71-133 35 10.02.2020 12:17 o-Xylene 111 9 mg/kg

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 10.02.2020 12:17 1,4-Difluorobenzene 98 98 70-130 % 10.02.2020 12:17 4-Bromofluorobenzene 86 87 70-130 %

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample = Parent Result

= MS/LCS Result = MSD/LCSD Result

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

Received by: (Signature)

22

133

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 051418 Rev. 2018.1



Dan Moir

Chain of Custody

Work Order No: 67 4085

www.xenco.com

Page

9

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

LT Environmental, Inc., Permian office Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 City, State ZIP: Company Name: Bill to: (if different) Address: Carlsbad, NM 88220 522 West Mermond XTO Energy Kyle Littrell Reporting:Level II __evel III Program: UST/PST

State of Project:

□RP □rownfields □RC **Work Order Comments**

1) perfund

ISN/IS

RP

Pvel IV

Phone:

City, State ZIP:

Midland, Tx 79705

432) 236-3849

3300 North A Street

Address: Company Name:

Released to Imag

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 10.01.2020 11.33.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 674085

Analyst:

Temperature Measuring device used: T_NM_007

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

* Must be	completed for	after-hours	delivery of	samples	prior to	placing in	the i	refrigerato	16

Checklist completed by:	Cloe Clifton	Date: <u>10.01.2020</u>
Checklist reviewed by:	Jessica Vramer	Date: 10.02.2020

Jessica Kramer

PH Device/Lot#:

Received by OCD: 12/23/2020 8:06:26 AM ightharpoonup environment Testing

Certificate of Analysis Summary 676135

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303 H C7B

Project Id: Contact:

Project Location:

012920144

Dan Moir

Date Received in Lab: Mon 10.26.2020 16:50

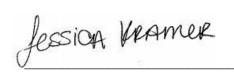
Report Date: 10.29.2020 08:21

Project Manager: Jessica Kramer

	Lab Id:	676135-0	001	676135-0	002	676135-0	003	676135-0	004	676135-0	005	676135-	006
Amalusia Basusatad	Field Id:	FS01		FS02		FS03		FS04		FS05		FS06	
Analysis Requested	Depth:	0.5- ft	t	0.5- ft		0.5- ft		0.5- ft		0.5- ft		0.5- ft	
	Matrix:	SOIL	,	SOIL		SOIL	SOIL		,	SOIL		SOIL	
	Sampled:	10.26.2020	10.26.2020 14:00		14:03	10.26.2020	14:05	10.26.2020	14:06	10.26.2020 14:08		10.26.2020 14:1	
BTEX by EPA 8021B	Extracted:	10.27.2020	10:00	10.27.2020	10:00	10.27.2020	10:00	10.27.2020	10:00	10.27.2020	10:00	10.27.2020	0 10:00
	Analyzed:	10.27.2020	10.27.2020 15:34		15:57	10.27.2020	16:19	10.27.2020	16:41	10.27.2020	17:04	10.27.2020	17:26
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0000198	0.0000198
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0000198	0.0000198
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0000198	0.0000198
m,p-Xylenes		< 0.00404	0.00404	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00404	0.00404	< 0.0000397	0.0000397
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0000198	0.0000198
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0000198	
Total BTEX		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0000198	0.0000198
Chloride by EPA 300	Extracted:	10.27.2020	12:01	10.27.2020 12:01		10.27.2020 12:01		10.27.2020	12:01	10.27.2020	12:01	10.27.2020 12:01	
	Analyzed:	10.27.2020	17:06	10.27.2020	17:12	10.27.2020 17:18		10.27.2020 17:24		10.27.2020 17:42		2 10.27.2020 17:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		35900	199	5930	50.5	12300	201	18100	200	20000	200	21000	199
TPH by SW8015 Mod	Extracted:	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54
	Analyzed:	10.27.2020	15:01	10.27.2020	15:21	10.27.2020	15:44	10.27.2020	16:04	10.27.2020	16:31	10.27.2020	16:52
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.1	50.1	< 50.3	50.3
Diesel Range Organics (DRO)		<49.8	49.8	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.1	50.1	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.1	50.1	<50.3	50.3
Total GRO-DRO		<49.8	49.8	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.1	50.1	<50.3	50.3
Total TPH		<49.8	49.8	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.1	50.1	<50.3	50.3

BRL - Below Reporting Limit

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



Received by OCD: 12/23/2020 8:06:26 AM eurofins | **Environment Testing**

Certificate of Analysis Summary 676135

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303 H C7B

Project Id: Contact:

012920144

Dan Moir

Date Received in Lab: Mon 10.26.2020 16:50

Report Date: 10.29.2020 08:21

Project Location:								P	roject M	anager: Jes	sica Kran	ner	
	Lab Id:	676135-0	007	676135-0	008	676135-	009	676135-010		676135-011		676135-012	
Analysis Pagyastad	Field Id:	FS07		FS08	FS08		FS09			FS11		FS12	
Analysis Requested	Depth:	0.5- ft		0.5- ft		0.5- f	t	0.5- f	t	0.5- ft	;	0.5- ft	
	Matrix:	SOIL		SOIL		SOIL	,	SOIL	_	SOIL		SOIL	
	Sampled:	10.26.2020	14:13	10.26.2020	10.26.2020 14:15 10.26.2020 1		14:18	10.26.2020	14:17	10.26.2020	14:20	10.26.2020	14:22
BTEX by EPA 8021B	Extracted:	10.27.2020	10.27.2020 10:00		10:00	10.27.2020	10:00	10.27.2020	10:00	10.27.2020	10:00	10.27.2020	10:00
	Analyzed:	10.27.2020	0.27.2020 17:48		18:11	10.27.2020	18:33	10.27.2020	19:51	10.27.2020	20:13	10.27.2020	20:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	- '	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202
m,p-Xylenes		< 0.00404	0.00404	< 0.00399	0.00399	< 0.00397	0.00397	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00403	0.00403
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202
Total BTEX		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	10.27.2020	12:01	10.27.2020	12:01	10.27.2020	12:01	10.27.2020	12:01	10.27.2020	12:01	10.27.2020	12:01
	Analyzed:	10.27.2020	17:54	10.27.2020	18:00	10.27.2020	18:06	10.27.2020	18:12	10.27.2020	18:30	10.27.2020	18:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2270	49.8	1820	50.1	22300	202	19400	200	16400	201	20300	199
TPH by SW8015 Mod	Extracted:	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54
	Analyzed:	10.27.2020	17:12	10.27.2020	17:32	10.27.2020	17:52	10.27.2020	18:32	10.27.2020	18:52	10.27.2020	19:12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	•	<50.2	50.2	<49.9	49.9	< 50.3	50.3	<50.2	50.2	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.2	50.2	81.2	49.9	<49.8	49.8

BRL - Below Reporting Limit

Total GRO-DRO

Total TPH

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

< 50.2

< 50.2

< 50.2

50.2

50.2

50.2

Jessica Vramer

49.9

49.9

49.9

<49.9

81.2

81.2

49.8

49.8

49.8

<49.8

<49.8

<49.8

<49.9

<49.9

<49.9

49.9

49.9

49.9

< 50.3

< 50.3

<50.3

50.3

50.3

50.3

< 50.2

< 50.2

< 50.2

50.2

50.2

50.2

Motor Oil Range Hydrocarbons (MRO)

Received by OCD: 12/23/2020 8:06:26 AM the eurofins | Environment Testing

Certificate of Analysis Summary 676135

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303 H C7B

Project Id: Contact:

Project Location:

012920144

Dan Moir

Date Received in Lab: Mon 10.26.2020 16:50

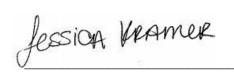
Report Date: 10.29.2020 08:21

Project Manager: Jessica Kramer

	Lab Id:	676135-0	013	676135-0	14	676135-0)15	676135-0)16	676135-0	017	676135-0	018
Analysis Paguested	Field Id:	BH01	l	BH01	A	BH02		BH02 A		BH03		BH03 A	
Analysis Requested	Depth:	1- ft		2- ft	2- ft		1- ft		2- ft		1- ft		
	Matrix:	SOIL	,	SOIL		SOIL	SOIL		SOIL		SOIL		
	Sampled:	10.26.2020	10.26.2020 10:47		10:50	10.26.2020	11:14	10.26.2020	11:16	10.26.2020	11:21	10.26.2020 11:24	
BTEX by EPA 8021B	Extracted:	10.27.2020	10.27.2020 10:00		10:00	10.27.2020	10:00	10.27.2020	10:00	10.27.2020	10:00	10.27.2020 10:00	
	Analyzed:	10.27.2020	10.27.2020 20:58		21:20	10.27.2020	21:43	10.27.2020	22:05	10.27.2020	22:28	10.27.2020	22:50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202
m,p-Xylenes		< 0.00398	0.00398	< 0.00396	0.00396	< 0.00400	0.00400	< 0.00404	0.00404	< 0.00403	0.00403	< 0.00403	0.00403
o-Xylene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202
Total Xylenes		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202
Total BTEX		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	10.27.2020	12:01	10.27.2020 12:01		10.27.2020	12:01	10.27.2020	12:01	10.27.2020	12:01	10.27.2020 12:01	
	Analyzed:	10.27.2020	18:54	10.27.2020	19:00	10.27.2020 19:06		10.27.2020 19:12		10.27.2020 19:18		3 10.27.2020 19:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5580	49.9	4390	49.8	196	9.98	69.9	9.92	71.8	9.98	57.8	9.96
TPH by SW8015 Mod	Extracted:	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54	10.27.2020	10:54
	Analyzed:	10.27.2020	19:32	10.27.2020	19:52	10.27.2020	20:12	10.27.2020	20:32	10.27.2020	20:53	10.27.2020	21:12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.8	49.8	< 50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		< 50.0	50.0	<49.8	49.8	< 50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.8	49.8	< 50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9
Total GRO-DRO		< 50.0	50.0	<49.8	49.8	< 50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9
Total TPH		< 50.0	50.0	<49.8	49.8	< 50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9

BRL - Below Reporting Limit

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





Analytical Report 676135

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303 H C7B 012920144 10.29.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



10.29.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676135

PLU 303 H C7B Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676135. 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 Eurofins Xenco, LLC. 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. 676135 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	10.26.2020 14:00	0.5 ft	676135-001
FS02	S	10.26.2020 14:03	0.5 ft	676135-002
FS03	S	10.26.2020 14:05	0.5 ft	676135-003
FS04	S	10.26.2020 14:06	0.5 ft	676135-004
FS05	S	10.26.2020 14:08	0.5 ft	676135-005
FS06	S	10.26.2020 14:10	0.5 ft	676135-006
FS07	S	10.26.2020 14:13	0.5 ft	676135-007
FS08	S	10.26.2020 14:15	0.5 ft	676135-008
FS09	S	10.26.2020 14:18	0.5 ft	676135-009
FS10	S	10.26.2020 14:17	0.5 ft	676135-010
FS11	S	10.26.2020 14:20	0.5 ft	676135-011
FS12	S	10.26.2020 14:22	0.5 ft	676135-012
BH01	S	10.26.2020 10:47	1 ft	676135-013
BH01 A	S	10.26.2020 10:50	2 ft	676135-014
BH02	S	10.26.2020 11:14	1 ft	676135-015
BH02 A	S	10.26.2020 11:16	2 ft	676135-016
BH03	S	10.26.2020 11:21	1 ft	676135-017
BH03 A	S	10.26.2020 11:24	2 ft	676135-018

CASE NARRATIVE

eurofins
Environment Testing
Xenco

Client Name: LT Environmental, Inc.

Project Name: PLU 303 H C7B

 Project ID:
 012920144
 Report Date:
 10.29.2020

 Work Order Number(s):
 676135
 Date Received:
 10.26.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Final 1.000

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS01** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-001

Date Collected: 10.26.2020 14:00

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

MAB

Date Prep: 10.27.2020 12:01 % Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Seq Number: 3140755

Tech:

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35900	199	mg/kg	10.27.2020 17:06		20

Analytical Method: TPH by SW8015 Mod

Tech: MAB

Analyst: Seq Number: 3140767

CAC

Date Prep: 10.27.2020 10:54 % Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.27.2020 15:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.27.2020 15:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.27.2020 15:01	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	10.27.2020 15:01	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.27.2020 15:01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	105	%	70-135	10.27.2020 15:01
o-Terphenyl	84-15-1	99	%	70-135	10.27.2020 15:01

Wet Weight



Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS01 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-001 Date Collected: 10.26.2020 14:00 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3140750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
Toluene	108-88-3	< 0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404	mg/kg	10.27.2020 15:34	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
Total BTEX		< 0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.27.2020 15:34	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.27.2020 15:34	

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS02** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-002

Date Collected: 10.26.2020 14:03

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst: Seq Number: 3140755 Date Prep:

10.27.2020 12:01

% Moisture:

Basis:

Wet Weight

Analysis Date Parameter Cas Number Result RLUnits Flag Dil Chloride 16887-00-6 5930 50.5 10.27.2020 17:12 5 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: Seq Number: 3140767

CAC

Date Prep:

10.27.2020 10:54

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.27.2020 15:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.27.2020 15:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.27.2020 15:21	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	10.27.2020 15:21	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.27.2020 15:21	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	101	%	70-135	10.27.2020 15:21
o-Terphenyl	84-15-1	104	%	70-135	10.27.2020 15:21

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS02** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-002 Date Collected: 10.26.2020 14:03 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

% Moisture: MAB Analyst: Date Prep: 10.27.2020 10:00

Seq Number: 3140750

Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.27.2020 15:57	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.27.2020 15:57	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.27.2020 15:57	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.27.2020 15:57	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.27.2020 15:57	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.27.2020 15:57	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.27.2020 15:57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	10.27.2020 15:57		
1,4-Difluorobenzene		540-36-3	106	%	70-130	10.27.2020 15:57		

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:

FS03

Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-003

Date Collected: 10.26.2020 14:05

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst: Seq Number: 3140755 Date Prep:

10.27.2020 12:01

% Moisture:

Basis:

Wet Weight

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 12300 201 10.27.2020 17:18 20 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: Seq Number: 3140767

CAC

Date Prep:

10.27.2020 10:54

% Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.27.2020 15:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.27.2020 15:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.27.2020 15:44	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.27.2020 15:44	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.27.2020 15:44	U	1
Surrogate	C	as Number 0	& Recovery	Units	Limits	Analysis Date	Flag	

Surrogate 1-Chlorooctane 111-85-3 116 % 70-135 10.27.2020 15:44 o-Terphenyl 84-15-1 116 % 70-135 10.27.2020 15:44

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

10.27.2020 10:00

Sample Id: FS03 Matrix:

c: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-003 Date Collected: 10.26.2020 14:05

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Basis: Wet Weight

Seq Number: 3140750

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.27.2020 16:19	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.27.2020 16:19	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.27.2020 16:19	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.27.2020 16:19	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.27.2020 16:19	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.27.2020 16:19	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.27.2020 16:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	70-130	10.27.2020 16:19		
1,4-Difluorobenzene		540-36-3	105	%	70-130	10.27.2020 16:19		

Date Prep:

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS04** Matrix:

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-004

Soil Date Collected: 10.26.2020 14:06

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

MAB Analyst:

Date Prep:

% Moisture: 10.27.2020 12:01

Basis: Wet Weight

Seq Number: 3140755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18100	200	mg/kg	10.27.2020 17:24		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3140767 Date Prep: 10.27.2020 10:54 % Moisture:

Basis:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.27.2020 16:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.27.2020 16:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.27.2020 16:04	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.27.2020 16:04	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.27.2020 16:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	110	%	70-135	10.27.2020 16:04
o-Terphenyl	84-15-1	104	%	70-135	10.27.2020 16:04

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS04 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-004 Date Collected: 10.26.2020 14:06 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 10.27.2020 10:00 % Moisture:

Seq Number: 3140750

р.	10.27.2020 10.00	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.27.2020 16:41	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.27.2020 16:41	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.27.2020 16:41	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.27.2020 16:41	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.27.2020 16:41	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.27.2020 16:41	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.27.2020 16:41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	10.27.2020 16:41		
4-Bromofluorobenzene		460-00-4	86	%	70-130	10.27.2020 16:41		

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS05**

Matrix:

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-005

Soil Date Collected: 10.26.2020 14:08

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech: MAB

Date Prep:

10.27.2020 12:01

% Moisture:

Basis:

Wet Weight

MAB Analyst:

Seq Number: 3140755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20000	200	mg/kg	10.27.2020 17:42		20

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

CACAnalyst: Seq Number: 3140767

10.27.2020 10:54 Date Prep:

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	10.27.2020 16:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	10.27.2020 16:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	10.27.2020 16:31	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	10.27.2020 16:31	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	10.27.2020 16:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	112	%	70-135	10.27.2020 16:31
o-Terphenyl	84-15-1	105	%	70-135	10.27.2020 16:31

Wet Weight

Xenco

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS05 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-005 Date Collected: 10.26.2020 14:08 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3140750

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.27.2020 17:04	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.27.2020 17:04	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.27.2020 17:04	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	10.27.2020 17:04	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.27.2020 17:04	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.27.2020 17:04	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.27.2020 17:04	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 17:04	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.27.2020 17:04	

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:

FS06

Matrix:

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-006

Soil Date Collected: 10.26.2020 14:10

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

MAB Analyst: Seq Number: 3140755 Date Prep:

10.27.2020 12:01

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21000	199	mg/kg	10.27.2020 17:48		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3140767 Date Prep:

10.27.2020 10:54

% Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	10.27.2020 16:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	10.27.2020 16:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	10.27.2020 16:52	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	10.27.2020 16:52	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	10.27.2020 16:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	115	%	70-135	10.27.2020 16:52
o-Terphenyl	84-15-1	114	%	70-135	10.27.2020 16:52

Wet Weight

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS06 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-006 Date Collected: 10.26.2020 14:10 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3140750

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0000198	0.0000198		mg/kg	10.27.2020 17:26	U	1
Toluene	108-88-3	< 0.0000198	0.0000198		mg/kg	10.27.2020 17:26	U	1
Ethylbenzene	100-41-4	< 0.0000198	0.0000198		mg/kg	10.27.2020 17:26	U	1
m,p-Xylenes	179601-23-1	< 0.0000397	0.0000397		mg/kg	10.27.2020 17:26	U	1
o-Xylene	95-47-6	< 0.0000198	0.0000198		mg/kg	10.27.2020 17:26	U	1
Total Xylenes	1330-20-7	< 0.0000198	0.0000198		mg/kg	10.27.2020 17:26	U	1
Total BTEX		<0.0000198	0.0000198		mg/kg	10.27.2020 17:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	10.27.2020 17:26		
4-Bromofluorobenzene		460-00-4	90	%	70-130	10.27.2020 17:26		

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS07** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-007

Date Collected: 10.26.2020 14:13

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech: MAB

Seq Number: 3140755

Analyst:

MAB

Date Prep:

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2270	49.8	mg/kg	10.27.2020 17:54		5

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: Seq Number: 3140767

CAC

Date Prep:

10.27.2020 10:54

10.27.2020 12:01

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	10.27.2020 17:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	10.27.2020 17:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	10.27.2020 17:12	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	10.27.2020 17:12	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	10.27.2020 17:12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	118	%	70-135	10.27.2020 17:12
o-Terphenyl	84-15-1	118	%	70-135	10.27.2020 17:12

Date Received:10.26.2020 16:50

Wet Weight

Xenco

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS07 Matrix: Soil

Lab Sample Id: 676135-007 Date Collected: 10.26.2020 14:13 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3140750

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.27.2020 17:48	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.27.2020 17:48	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.27.2020 17:48	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	10.27.2020 17:48	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.27.2020 17:48	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.27.2020 17:48	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.27.2020 17:48	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS08**

Matrix:

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-008

Soil Date Collected: 10.26.2020 14:15

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

MAB Analyst: Seq Number: 3140755 Date Prep:

10.27.2020 12:01

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1820	50.1	mg/kg	10.27.2020 18:00		5

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

CACAnalyst: Seq Number: 3140767

Date Prep:

10.27.2020 10:54

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.27.2020 17:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.27.2020 17:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.27.2020 17:32	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.27.2020 17:32	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.27.2020 17:32	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	111	%	70-135	10.27.2020 17:32
o-Terphenyl	84-15-1	116	%	70-135	10.27.2020 17:32

Wet Weight

10.27.2020 18:11

70-130

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS08 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-008 Date Collected: 10.26.2020 14:15 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

460-00-4

Seq Number: 3140750

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.27.2020 18:11	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.27.2020 18:11	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.27.2020 18:11	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.27.2020 18:11	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.27.2020 18:11	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.27.2020 18:11	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.27.2020 18:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	4	540-36-3	105	%	70-130	10.27.2020 18:11		

89

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS09**

Matrix:

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-009

Soil Date Collected: 10.26.2020 14:18

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB Tech:

MAB Analyst:

Date Prep: 10.27.2020 12:01 % Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Seq Number: 3140755

Analysis Date Parameter Cas Number Result RL Units Flag Dil Chloride 16887-00-6 22300 202 10.27.2020 18:06 20 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CAC Analyst: Seq Number: 3140767

Date Prep:

% Moisture: 10.27.2020 10:54

Basis:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.27.2020 17:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3	mg/kg	10.27.2020 17:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3	mg/kg	10.27.2020 17:52	U	1
Total GRO-DRO	PHC628	< 50.3	50.3	mg/kg	10.27.2020 17:52	U	1
Total TPH	PHC635	< 50.3	50.3	mg/kg	10.27.2020 17:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	10.27.2020 17:52	
o-Terphenyl	84-15-1	109	%	70-135	10.27.2020 17:52	

Wet Weight

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS09 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-009 Date Collected: 10.26.2020 14:18 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3140750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
Toluene	108-88-3	< 0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	mg/kg	10.27.2020 18:33	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
Total BTEX		< 0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.27.2020 18:33	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.27.2020 18:33	

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS10** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-010

Date Collected: 10.26.2020 14:17

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

MAB Analyst:

Date Prep:

10.27.2020 12:01

% Moisture:

Basis: Wet Weight

Seq Number: 3140755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19400	200	mg/kg	10.27.2020 18:12		20

Analytical Method: TPH by SW8015 Mod

Tech: MAB

Seq Number: 3140767

CAC

Analyst:

Date Prep: 10.27.2020 10:54 % Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	10.27.2020 18:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	10.27.2020 18:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	10.27.2020 18:32	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	10.27.2020 18:32	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	10.27.2020 18:32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	104	%	70-135	10.27.2020 18:32
o-Terphenyl	84-15-1	103	%	70-135	10.27.2020 18:32

Wet Weight

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS10 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-010 Date Collected: 10.26.2020 14:17 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3140750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
Toluene	108-88-3	< 0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	mg/kg	10.27.2020 19:51	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
Total BTEX		< 0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.27.2020 19:51	
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.27.2020 19:51	

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:

Seq Number: 3140755

FS11

Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-011

Date Collected: 10.26.2020 14:20

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep:

10.27.2020 12:01

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16400	201	mg/kg	10.27.2020 18:30		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3140767 Date Prep: 10.27.2020 10:54 % Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.27.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	81.2	49.9		mg/kg	10.27.2020 18:52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.27.2020 18:52	U	1
Total GRO-DRO	PHC628	81.2	49.9		mg/kg	10.27.2020 18:52		1
Total TPH	PHC635	81.2	49.9		mg/kg	10.27.2020 18:52		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	105	%	70-135	10.27.2020 18:52
o-Terphenyl	84-15-1	103	%	70-135	10.27.2020 18:52

Wet Weight

10.27.2020 20:13

70-130

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS11 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-011 Date Collected: 10.26.2020 14:20 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

460-00-4

Seq Number: 3140750

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.27.2020 20:13	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.27.2020 20:13	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.27.2020 20:13	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.27.2020 20:13	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.27.2020 20:13	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.27.2020 20:13	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.27.2020 20:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	4	540-36-3	105	%	70-130	10.27.2020 20:13		

90

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **FS12**

Matrix:

Soil

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-012

Date Collected: 10.26.2020 14:22

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst:

Seq Number: 3140755

Date Prep:

10.27.2020 12:01

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20300	199	mg/kg	10.27.2020 18:36		20

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: Seq Number: 3140767

CAC

Date Prep:

10.27.2020 10:54

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.27.2020 19:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.27.2020 19:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.27.2020 19:12	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	10.27.2020 19:12	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.27.2020 19:12	U	1
Surrogate	C	as Number "	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	108	%	70-135	10.27.2020 19:12
o-Terphenyl	84-15-1	107	%	70-135	10.27.2020 19:12

Date Received:10.26.2020 16:50

10.27.2020 20:36

mg/kg

Wet Weight

U

1

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: FS12 Matrix: Soil

Lab Sample Id: 676135-012 Date Collected: 10.26.2020 14:22 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3140750

Total BTEX

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	mg/kg	10.27.2020 20:36	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1

0.00202

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.27.2020 20:36	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.27.2020 20:36	

< 0.00202

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **BH01**

Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-013

Date Collected: 10.26.2020 10:47

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

MAB Analyst: Seq Number: 3140755 Date Prep:

10.27.2020 12:01

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter Cas Number Result RL Units **Analysis Date** Flag Dil Chloride 16887-00-6 5580 10.27.2020 18:54 5 49.9 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: Seq Number: 3140767

CAC

Date Prep:

10.27.2020 10:54

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.27.2020 19:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.27.2020 19:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.27.2020 19:32	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.27.2020 19:32	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.27.2020 19:32	U	1
Surrogate	C	as Number 0	& Recovery	Units	Limits	Analysis Date	Flaσ	

Surrogate 1-Chlorooctane 111-85-3 109 % 70-135 10.27.2020 19:32 o-Terphenyl 84-15-1 108 % 70-135 10.27.2020 19:32

Wet Weight

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: BH01 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-013 Date Collected: 10.26.2020 10:47 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3140750

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.27.2020 20:58	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.27.2020 20:58	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.27.2020 20:58	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.27.2020 20:58	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.27.2020 20:58	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.27.2020 20:58	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.27.2020 20:58	U	1
Surrogate	Ca	ıs Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 20:58	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.27.2020 20:58	

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **BH01 A** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-014

Date Collected: 10.26.2020 10:50

Sample Depth: 2 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

MAB

Date Prep: 10.27.2020 12:01 % Moisture:

Basis:

Wet Weight

Analyst: Seq Number: 3140755

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4390	49.8	mg/kg	10.27.2020 19:00		5

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CACAnalyst: Seq Number: 3140767

Date Prep:

10.27.2020 10:54

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.27.2020 19:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.27.2020 19:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.27.2020 19:52	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	10.27.2020 19:52	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.27.2020 19:52	U	1
Surrogate	C	as Number **	∕₀ Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	105	%	70-135	10.27.2020 19:52
o-Terphenyl	84-15-1	103	%	70-135	10.27.2020 19:52

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: BH01 A

Matrix: Soil

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-014

Date Collected: 10.26.2020 10:50

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB MAB

Date Prep: 10.27.2020 10:00

% Moisture:

Analyst:

Seq Number: 3140750

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	10.27.2020 21:20	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	10.27.2020 21:20	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	10.27.2020 21:20	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	10.27.2020 21:20	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	10.27.2020 21:20	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	10.27.2020 21:20	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	10.27.2020 21:20	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.27.2020 21:20	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.27.2020 21:20	

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **BH02**

Lab Sample Id: 676135-015

Soil

Date Received:10.26.2020 16:50

Date Collected: 10.26.2020 11:14

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst: Seq Number: 3140755 Date Prep:

Matrix:

10.27.2020 12:01

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Analysis Date Parameter Cas Number Result RL Units Flag Dil Chloride 16887-00-6 196 10.27.2020 19:06 9.98 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: Seq Number: 3140767

CAC

Date Prep:

10.27.2020 10:54

% Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	10.27.2020 20:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	10.27.2020 20:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	10.27.2020 20:12	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	10.27.2020 20:12	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	10.27.2020 20:12	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	106	%	70-135	10.27.2020 20:12
o-Terphenyl	84-15-1	102	%	70-135	10.27.2020 20:12

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **BH02**

Lab Sample Id: 676135-015

Matrix: Soil

10.27.2020 10:00

Date Received:10.26.2020 16:50

Date Collected: 10.26.2020 11:14 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

MAB Analyst:

Date Prep:

% Moisture:

Basis: Wet Weight

J	
Seq Number:	3140750

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.27.2020 21:43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.27.2020 21:43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.27.2020 21:43	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.27.2020 21:43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.27.2020 21:43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.27.2020 21:43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.27.2020 21:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	10.27.2020 21:43		
4-Bromofluorobenzene		460-00-4	87	%	70-130	10.27.2020 21:43		



LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **BH02 A** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-016

Date Collected: 10.26.2020 11:16

Sample Depth: 2 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech: MAB

MAB

Date Prep: 10.27.2020 12:01 % Moisture:

Basis:

Wet Weight

Analyst: Seq Number: 3140755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.9	9.92	mg/kg	10.27.2020 19:12		1

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CACAnalyst: Seq Number: 3140767

Date Prep:

10.27.2020 10:54

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.27.2020 20:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.27.2020 20:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.27.2020 20:32	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.27.2020 20:32	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.27.2020 20:32	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	105	%	70-135	10.27.2020 20:32
o-Terphenyl	84-15-1	101	%	70-135	10.27.2020 20:32

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **BH02 A** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-016

Date Collected: 10.26.2020 11:16

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB MAB

Date Prep:

% Moisture: 10.27.2020 10:00

Analyst:

Seq Number: 3140750

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.27.2020 22:05	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.27.2020 22:05	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.27.2020 22:05	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	10.27.2020 22:05	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.27.2020 22:05	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.27.2020 22:05	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.27.2020 22:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	10.27.2020 22:05		
1,4-Difluorobenzene		540-36-3	98	%	70-130	10.27.2020 22:05		

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **BH03**

Lab Sample Id: 676135-017

Soil

Date Received:10.26.2020 16:50

Date Collected: 10.26.2020 11:21

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Matrix:

Prep Method: E300P

MAB Tech:

MAB Analyst:

Date Prep: 10.27.2020 12:01 % Moisture:

Basis: Wet Weight

Seq Number: 3140755

Analysis Date Parameter Cas Number Result RL Units Flag Dil Chloride 16887-00-6 71.8 10.27.2020 19:18 9.98 mg/kg

Analytical Method: TPH by SW8015 Mod

MAB

Analyst:

Seq Number: 3140767

Tech:

CAC

Date Prep: 10.27.2020 10:54 % Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.27.2020 20:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.27.2020 20:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.27.2020 20:53	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.27.2020 20:53	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.27.2020 20:53	U	1
Surrogate	C	as Number 0	& Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	110	%	70-135	10.27.2020 20:53
o-Terphenyl	84-15-1	105	%	70-135	10.27.2020 20:53

Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: BH03 Matrix: Soil

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-017 Date Collected: 10.26.2020 11:21

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

MAB

Prep Method: SW5035A

Tech: MAB

Analyst:

Date Prep: 10.27.2020 10:00

% Moisture:

Seq Number: 3140750

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.27.2020 22:28	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.27.2020 22:28	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.27.2020 22:28	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	10.27.2020 22:28	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.27.2020 22:28	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.27.2020 22:28	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.27.2020 22:28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	88	%	70-130	10.27.2020 22:28		
1,4-Difluorobenzene		540-36-3	105	%	70-130	10.27.2020 22:28		

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: **BH03 A** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676135-018

Date Collected: 10.26.2020 11:24

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

% Moisture:

Seq Number: 3140755

Date Prep: 10.27.2020 12:01

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.8	9.96	mg/kg	10.27.2020 19:24		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3140767

10.27.2020 10:54 Date Prep:

% Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.27.2020 21:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.27.2020 21:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.27.2020 21:12	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.27.2020 21:12	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.27.2020 21:12	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	114	%	70-135	10.27.2020 21:12
o-Terphenyl	84-15-1	108	%	70-135	10.27.2020 21:12

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id: BH03 A

Matrix: Soil

Date Prep:

Date Received:10.26.2020 16:50

Lab Sample Id: 676135-018

Date Collected: 10.26.2020 11:24

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MA

MAB MAB

1,4-Difluorobenzene

10.27.2020 10:00

% Moisture:

Seq Number: 3140750

Analyst:

Basis: Wet Weight

10.27.2020 22:50

70-130

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.27.2020 22:50	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.27.2020 22:50	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.27.2020 22:50	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	10.27.2020 22:50	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.27.2020 22:50	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.27.2020 22:50	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.27.2020 22:50	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	Δ	160-00-4	89	%	70-130	10.27.2020.22:50		

102

540-36-3



Flagging Criteria

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

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

QC Summary 676135

LT Environmental, Inc.

PLU 303 H C7B

Analytical Method: Chloride by EPA 300

Seq Number: 3140755

7713998-1-BLK

Matrix: Solid

LCS

104

E300P Prep Method:

Date Prep: 10.27.2020

LCSD Sample Id:

7713998-1-BSD

MB Sample Id: **Parameter**

MB

LCS Sample Id:

7713998-1-BKS

LCSD

RPD %RPD Units

Limit

20

Analysis Flag Date

Chloride

Result Amount <10.0

Spike

250

Spike

198

LCS Result %Rec 260

Result 258

%Rec 90-110 103

LCSD

Limits

1

mg/kg

10.27.2020 16:36

Analytical Method: Chloride by EPA 300

Seq Number:

3140755

Matrix: Soil

Prep Method: Date Prep:

E300P 10.27.2020

Parent Sample Id:

676134-021

MS Sample Id:

676134-021 S

MSD Sample Id: 676134-021 SD

10.27.2020 16:54

Parameter Chloride

Parent Result Amount

2440

MS Result 2650

MS MSD %Rec Result

MSD Limits %Rec 94

90-110 1

%RPD

Units

mg/kg

Analysis Flag Date

Analytical Method: Chloride by EPA 300

3140755

198

90-110

Prep Method:

E300P

Seq Number: Parent Sample Id:

676135-010

Matrix: Soil MS Sample Id:

101

106

676135-010 S

2630

Date Prep:

RPD

Limit

20

RPD

Limit

20

10.27.2020 MSD Sample Id: 676135-010 SD

Parameter

Spike Parent Result Amount

19400

MS MS Result %Rec

19600

MSD Result 19600

MSD Limits %Rec 101

%RPD 0

Units

mg/kg

Analysis Flag Date

10.27.2020 18:18

Chloride

3140767

Analytical Method: TPH by SW8015 Mod

Matrix: Solid

Prep Method:

SW8015P

10.27.2020

Seq Number: MB Sample Id:

7713996-1-BLK

LCS Sample Id: 7713996-1-BKS

Date Prep: LCSD Sample Id: 7713996-1-BSD

35

35

Parameter

Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)

MB Spike Result Amount < 50.0 1000

Result 1100 < 50.0 1000 1230

MB

Flag

LCS LCS %Rec 110

123

LCSD LCSD Limits %Rec Result 1050 105 70-135 %RPD **RPD** Limit

Limits

70-135

70-135

Units

Analysis Flag Date

Surrogate

1-Chlorooctane o-Terphenyl

%Rec 120 115

MB

LCS %Rec 125 119

1200 LCS

Flag

70-135 120 LCSD LCSD

%Rec

121

117

5 2

Flag

mg/kg mg/kg

Units

%

%

10.27.2020 12:21 10.27.2020 12:21

Analysis

Date

10.27.2020 12:21

10.27.2020 12:21

Prep Method:

SW8015P

Seq Number:

Analytical Method: TPH by SW8015 Mod 3140767

Matrix: Solid

MB Sample Id: 7713996-1-BLK

Date Prep:

10.27.2020

Flag

Parameter

Motor Oil Range Hydrocarbons (MRO)

MBResult < 50.0

Units mg/kg

Analysis Date 10.27.2020 12:02

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

SW8015P

QC Summary 676135

LT Environmental, Inc.

PLU 303 H C7B

Analytical Method:TPH by SW8015 ModPrep Method:Seq Number:3140767Matrix: SoilDate Prep:

 Seq Number:
 3140767
 Matrix:
 Soil
 Date Prep:
 10.27.2020

 Parent Sample Id:
 676134-021
 MS Sample Id:
 676134-021 S
 MSD Sample Id:
 676134-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	978	98	893	89	70-135	9	35	mg/kg	10.27.2020 14:21	
Diesel Range Organics (DRO)	< 50.2	1000	1000	100	1020	102	70-135	2	35	mg/kg	10.27.2020 14:21	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		133		70-135	%	10.27.2020 14:21
o-Terphenyl	107		119		70-135	%	10.27.2020 14:21

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
Sea Number: 3140750 Matrix: Solid Date Prep: 10.27.2020

 Seq Number:
 3140750
 Matrix:
 Solid
 Date Prep:
 10.27.2020

 MB Sample Id:
 7713993-1-BLK
 LCS Sample Id:
 7713993-1-BKS
 LCSD Sample Id:
 7713993-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.100	100	0.103	103	70-130	3	35	mg/kg	10.27.2020 13:09
Toluene	< 0.00200	0.100	0.0969	97	0.0994	99	70-130	3	35	mg/kg	10.27.2020 13:09
Ethylbenzene	< 0.00200	0.100	0.0883	88	0.0908	91	71-129	3	35	mg/kg	10.27.2020 13:09
m,p-Xylenes	< 0.00400	0.200	0.177	89	0.181	91	70-135	2	35	mg/kg	10.27.2020 13:09
o-Xylene	< 0.00200	0.100	0.0871	87	0.0894	89	71-133	3	35	mg/kg	10.27.2020 13:09

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		100		100		70-130	%	10.27.2020 13:09
4-Bromofluorobenzene	85		86		85		70-130	%	10.27.2020 13:09

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3140750Matrix: SoilDate Prep:10.27.2020

Parent Sample Id: 676134-021 MS Sample Id: 676134-021 S MSD Sample Id: 676134-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.110	109	0.111	111	70-130	1	35	mg/kg	10.27.2020 13:54	
Toluene	< 0.00201	0.101	0.105	104	0.105	105	70-130	0	35	mg/kg	10.27.2020 13:54	
Ethylbenzene	< 0.00201	0.101	0.0919	91	0.0956	96	71-129	4	35	mg/kg	10.27.2020 13:54	
m,p-Xylenes	< 0.00402	0.201	0.185	92	0.192	96	70-135	4	35	mg/kg	10.27.2020 13:54	
o-Xylene	< 0.00201	0.101	0.0904	90	0.0959	96	71-133	6	35	mg/kg	10.27.2020 13:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	10.27.2020 13:54
4-Bromofluorobenzene	86		82		70-130	%	10.27.2020 13:54



Chain of Custody

Work Order No: 676135

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440

Lab of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated 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 Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Relinquished by: (Signature) SAMPLE RECEIPT FS 05 F307 4054 FS 03 FS 07 rslo 1508 FS 06 FS 02 F501 Sample Custody Seals: Total 200.7 / 6010 Sampler's Name: Truis Casey Cooler Custody Seals: Project Number: Project Manager: Circle Method(s) and Metal(s) to be analyzed Company Name: City, State ZIP: Project Name: Sample Identification Temperature (°C): Received Intact: PO#: Phone: (432) 704-5178 Tuloma 3300 North 156. Blog 1 Unit 222 012920144 Milland T Envision mentral INC. PLU 3034 CTB 200.8 / 6020: Yes femp Blank: 1.6 No Matrix N/A NIA 17K 79 25 Morrissex Received by: (Signature) 10/26/20 Sampled Yes Date No Correction Factor: Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Total Containers: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 1411 2141 0141 1415 1413 8041 1406 1400 Thermometer ID 1405 1403 Sampled 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Time Wet Ice: Email: Mossissey alternicon times of lienticon Due Date: Rush: Routine Turn Around -0-2 0.5 Yes Depth Company Name: Bill to: (if different) N City, State ZIP: Address: 10/26/20 16:50 Number of Containers Pres. Date/Time TPH (EPA)8015 SIOHE Greenest × B TEX CEPA 8021) X Chloricle (EPA 300.0 Enusy Littral Relinquished by: (Signature) ANALYSIS REQUEST Cu Fe Pb Mg Mn Mo TI U Deliverables: EDD Reporting:Level II | Level III | PST/UST | TRRP | Level IV | Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project Z. Received by: (Signature) Se Ag Work Order Comments SiO2 Na ADaPT 1631 / 245.1 / 7470 / 7471 : Hg Sr TI Sn U V Zn TAT starts the day recevied by the lab, if NaOH: Na Zn Acetate+ NaOH: Zn HCL: HL H2S04: H2 HNO3: HN None: NO Brite MeOH: Me Page Sample Comments Preservative Codes received by 4:00pm Date/Time of

Revised Date 022619 Rev. 2019

Page 101 of 167



Company Name:

LT Environmenta Inc

Company Name: Bill to: (if differen

Energy Li Krei

Program: UST/PST ☐ PRP ☐ Brownfields ☐RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

Page

of

Chain of Custody

Work Order No: 676135

Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasibad, NM (432) 704-5440 Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

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		4 2	1976/20 16:50		4		0 6
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	Ш		Detail	Signatura)	Received by:	inature)	Relinguished by: (Signature)
	the control	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 enforced unless previously neodiated.	or expenses incurred by the cliced to Xenco, but not analyzed. The	responsibility for any losser f \$5 for each sample submitte	and shall not assume an ach project and a charge	only for the cost of samples of \$75.00 will be applied to ea	of service. Xenco will be liable of Xenco. A minimum charge
		nd subcontractors. It assigns standard terms and conditions	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors.	purchase order from client	amples constitutes a vali	nent and relinquishment of s	Notice: Signature of this docu
s Sr Tl Sn ∪ V Zn 1631 / 245.1 / 7470 / 7471 : Hg	Mo Ni K Se Ag SiO2 Na	B Cd Ca Cr Co Cu Fe Pb Mg Mn N Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	1 Al Sb As Ba Be Sb As Ba Be Cd	8RCRA 13PPM Texas 11 TCLP / SPLP 6010: 8RCRA		Circle Method(s) and Metal(s) to be analyzed	Circle Method(s)
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				24 2	1 1/2	-	BH03 A
			- x x x	1121 1	11		BH03
			1 X X X	16 2	1116		BH02A
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			- x x x	1047 1	10		BNOI
			7 7 1	1422 0.5	1 14		F512
Bisciete	Bisc		1 X X X	1420 0.5	HI OC/22/01	5	1511
Sample Comments			IP B72	Time Depth	Date Sampled	ication Matrix	ID Sample Identification
IAT starts the day received by the lab, if received by 4:00pm	IAT sta		HC KC	tainers:		als: Yes No N/A	Sample Custody Seals:
an roomac record all			EI	Factor:	Correction Factor	Yes No NA	Cooler Custody Seals:
Na Na Na Na Na Na Na Na Na Na Na Na Na N	Za Acette		04		1	lact: Nek No	Received Intact:
Ē			80	5	5/)	Temperature (°C):
			2013	Wet Ice: Yes No	nk: Yes No	Temp Blank:	SAMPLE RECEIPT
H2	H2S04: H2		2/		Quote #:		PO#:
HZ C	HNO3: HN)	Due Date:	Va	Travis Casp	Sampler's Name:
5	None: NO			Rush:			Project Location
Me	MeOH		Code	Routine	H	012920144	Project Number:
Preservative Codes		ANALYSIS REQUEST		Turn Around	TB	PLU 303H CTB	Project Name:
Other:	Deliverables: EDD	tens + yolbeno com	Emorrissey & 16 cm. Com	Email: EMONA	1178	(752) 104-5178	Phone:
JTRRP Level IV	Reporting:Level III Level III PST/UST TRRP Level IV	NAI	City, State ZIP: Corls back	City, Sta	11100	12	City, State Lift.
]		on conc so.	1000		7420	1	City State 710.
Conformation	State of Project:	Secret St	Address: 2104 E	Chitzon ac	St. B11. 100	Address: 3300 North A	Address:

Revised Date 022619 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 10.26.2020 04.50.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 676135

Analyst:

Temperature Measuring device used: T_NM_007

\$	Sample Receipt Checklist	C	omments
#1 *Temperature of cooler(s)?	1.0	6	
#2 *Shipping container in good condition?	Ye	s	
#3 *Samples received on ice?	Ye	s	
#4 *Custody Seals intact on shipping contained	er/ cooler?	s	
#5 Custody Seals intact on sample bottles?	Ye	s	
#6*Custody Seals Signed and dated?	Ye	s	
#7 *Chain of Custody present?	Ye	s	
#8 Any missing/extra samples?	No)	
#9 Chain of Custody signed when relinquishe	d/ received?	s	
#10 Chain of Custody agrees with sample lab	els/matrix? Ye	s	
#11 Container label(s) legible and intact?	Ye	s	
#12 Samples in proper container/ bottle?	Ye		amples received in bulk ntainers.
#13 Samples properly preserved?	Ye	s	
#14 Sample container(s) intact?	Ye	s	
#15 Sufficient sample amount for indicated te	st(s)?	s	
#16 All samples received within hold time?	Ye	s	
#17 Subcontract of sample(s)?	No)	
#18 Water VOC samples have zero headspace	ce? N/	Α	

* Must be	completed for	after-hours	delivery of	samples	prior to	placing in	the i	refrigerato	16

Checklist completed by:	Close auth	Date: 10.27.2020	
	Cloe Clifton		
Checklist reviewed by:	Jessica Vramer	Date: 10.27.2020	

Jessica Kramer

PH Device/Lot#:

eurofins Environment Testing

Certificate of Analysis Summary 676136

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303H C7B

Project Id: Contact:

Project Location:

012920144

Dan Moir

Date Received in Lab: Mon 10.26.2020 16:50

Report Date: 10.29.2020 09:04

Project Manager: Jessica Kramer

	Lab Id:	676136-0	001	676136-0	02	676136-0	003	676136-	004		
Analysis Requested	Field Id:	BH04		BH04 A	4	BH05		BH05 A	\		
Anaiysis Requesiea	Depth:	1- ft		4- ft		1- ft		4- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	10.26.2020	09:34	10.26.2020	09:48	10.26.2020	09:49	10.26.2020	09:58		
BTEX by EPA 8021B	Extracted:	10.27.2020	17:05	10.27.2020	17:05	10.27.2020	17:05	10.27.2020	17:05		
	Analyzed:	10.28.2020	02:19	10.28.2020	02:41	10.28.2020	03:04	10.28.2020	03:26		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200		
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200		
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200		
m,p-Xylenes		< 0.00403	0.00403	< 0.00400	0.00400	< 0.00396	0.00396	< 0.00401	0.00401		
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200		
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200		
Total BTEX		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	10.27.2020	14:02	10.27.2020	14:02	10.27.2020	14:02	10.27.2020	14:02		
	Analyzed:	10.27.2020	20:00	10.27.2020	20:17	10.27.2020	20:23	10.27.2020	20:29		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<9.98	9.98	88.4	10.0	23.5	10.0	61.2	9.94		
TPH by SW8015 Mod	Extracted:	10.27.2020	16:58	10.27.2020	16:58	10.27.2020	16:58	10.27.2020	16:58		
	Analyzed:	10.27.2020	23:12	10.28.2020	00:11	10.28.2020	00:31	10.28.2020	00:51		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Diesel Range Organics (DRO)		< 50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Total GRO-DRO		< 50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Total TPH		< 50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		

BRL - Below Reporting Limit

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

Jessica Vramer



Analytical Report 676136

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303H C7B 012920144 10.29.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



10.29.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676136

PLU 303H C7B Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676136. 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 Eurofins Xenco, LLC. 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. 676136 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH04	S	10.26.2020 09:34	1 ft	676136-001
BH04 A	S	10.26.2020 09:48	4 ft	676136-002
BH05	S	10.26.2020 09:49	1 ft	676136-003
BH05 A	S	10.26.2020 09:58	4 ft	676136-004

Page 107 of 167

CASE NARRATIVE

eurofins Environment Testing Xenco

Client Name: LT Environmental, Inc.

Project Name: PLU 303H C7B

 Project ID:
 012920144
 Report Date:
 10.29.2020

 Work Order Number(s):
 676136
 Date Received:
 10.26.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: **BH04**

Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676136-001

Date Collected: 10.26.2020 09:34

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

MAB Analyst:

Seq Number: 3140756

Date Prep:

10.27.2020 14:02

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.98	9.98	mg/kg	10.27.2020 20:00	U	1

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: Seq Number: 3140768

CAC

Date Prep:

10.27.2020 16:58

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.27.2020 23:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.27.2020 23:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.27.2020 23:12	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.27.2020 23:12	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.27.2020 23:12	U	1
Surrogate	C	as Number 0	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	120	%	70-135	10.27.2020 23:12
o-Terphenyl	84-15-1	121	%	70-135	10.27.2020 23:12

Wet Weight

Xenco

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: **BH04** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676136-001 Date Collected: 10.26.2020 09:34 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

MAB Analyst: Date Prep:

Seq Number: 3140788

10.27.2020 17:05	% Moisture:
10.27.2020 17.03	Basis:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.28.2020 02:19	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.28.2020 02:19	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.28.2020 02:19	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	10.28.2020 02:19	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.28.2020 02:19	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.28.2020 02:19	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.28.2020 02:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	10.28.2020 02:19		
4-Bromofluorobenzene		460-00-4	126	%	70-130	10.28.2020 02:19		

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: **BH04 A** Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676136-002

Date Collected: 10.26.2020 09:48

10.27.2020 14:02

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

MAB Date Prep: % Moisture:

Analyst: Seq Number: 3140756

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	88.4	10.0	mg/kg	10.27.2020 20:17		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3140768 Date Prep: 10.27.2020 16:58 % Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.28.2020 00:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.28.2020 00:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.28.2020 00:11	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.28.2020 00:11	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.28.2020 00:11	U	1
Surrogate	C	as Number 0	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	122	%	70-135	10.28.2020 00:11
o-Terphenyl	84-15-1	124	%	70-135	10.28.2020 00:11

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Soil

Sample Id: BH04 A

Lab Sample Id: 676136-002 Date Collected: 10.26.2020 09:48

Date Received:10.26.2020 16:50

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

MAB

Tech: MAB

Analyst: MAB Seq Number: 3140788

1,4-Difluorobenzene

JB Dote

Date Prep: 10.27.2020 17:05

% Moisture:

Basis: Wet Weight

10.28.2020 02:41

70-130

Prep Method: SW5035A

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.28.2020 02:41	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.28.2020 02:41	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.28.2020 02:41	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.28.2020 02:41	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.28.2020 02:41	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.28.2020 02:41	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.28.2020 02:41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	123	%	70-130	10.28.2020 02:41		

112

540-36-3

Matrix:

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: **BH05**

Seq Number: 3140756

Matrix:

Soil

Date Received:10.26.2020 16:50

Lab Sample Id: 676136-003

Date Collected: 10.26.2020 09:49

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

MAB

Date Prep:

10.27.2020 14:02

% Moisture:

Basis:

Wet Weight

Analysis Date Parameter Cas Number Result RLUnits Flag Dil Chloride 16887-00-6 23.5 10.0 10.27.2020 20:23 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech:

Tech:

Analyst:

MAB

Analyst: Seq Number: 3140768

CAC

Date Prep:

10.27.2020 16:58

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.28.2020 00:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.28.2020 00:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.28.2020 00:31	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	10.28.2020 00:31	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.28.2020 00:31	U	1
Surrogate	C	as Number 0	6 Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	115	%	70-135	10.28.2020 00:31
o-Terphenyl	84-15-1	116	%	70-135	10.28.2020 00:31

Wet Weight

Xenco

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: BH05 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676136-003 Date Collected: 10.26.2020 09:49 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 10.27.2020 17:05 % Moisture: Basis:

Seq Number: 3140788

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	10.28.2020 03:04	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	10.28.2020 03:04	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	10.28.2020 03:04	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	10.28.2020 03:04	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	10.28.2020 03:04	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	10.28.2020 03:04	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	10.28.2020 03:04	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	10.28.2020 03:04	
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.28.2020 03:04	

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: BH05 A

Seq Number: 3140756

Tech:

Analyst:

Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676136-004

Date Collected: 10.26.2020 09:58

Sample Depth: 4 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB MAB

Date Prep:

10.27.2020 14:02

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.2	9.94	mg/kg	10.27.2020 20:29		1

Analytical Method: TPH by SW8015 Mod

Tech: MAB

Analyst:

Seq Number: 3140768

CAC

Date Prep:

10.27.2020 16:58

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.28.2020 00:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.28.2020 00:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.28.2020 00:51	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.28.2020 00:51	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.28.2020 00:51	U	1
Surrogate	C	as Number '	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	115	%	70-135	10.28.2020 00:51
o-Terphenyl	84-15-1	118	%	70-135	10.28.2020 00:51

Wet Weight

eurofins Environment Testing Xenco

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: BH05 A Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676136-004 Date Collected: 10.26.2020 09:58 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 10.27.2020 17:05 % Moisture: Basis:

Seq Number: 3140788

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.28.2020 03:26	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.28.2020 03:26	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.28.2020 03:26	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.28.2020 03:26	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.28.2020 03:26	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.28.2020 03:26	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.28.2020 03:26	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	F
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.28.2020 03:26	
4-Bromofluorobenzene	460-00-4	122	%	70-130	10.28.2020 03:26	



Flagging Criteria

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

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

MB Sample Id:

QC Summary 676136

LT Environmental, Inc.

PLU 303H C7B

Analytical Method: Chloride by EPA 300

Seq Number: 3140756

7714019-1-BLK LCS Sample Id: 7714019-1-BKS

Matrix: Solid

E300P Prep Method:

Date Prep:

LCSD Sample Id: 7714019-1-BSD

10.27.2020

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

Chloride <10.0 250 106 262 90-110 20 10.27.2020 19:48 264 105 1 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3140756

Matrix: Soil

Prep Method: Date Prep:

E300P

10.27.2020

MS Sample Id: 676136-001 S MSD Sample Id: 676136-001 SD Parent Sample Id: 676136-001

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

10.27.2020 20:06 Chloride <10.0 200 209 105 206 102 90-110 1 20 mg/kg

Analytical Method: Chloride by EPA 300

3140756 Seq Number:

Prep Method:

E300P

Matrix: Soil Date Prep: 10.27.2020 Parent Sample Id:

MS Sample Id: 676153-005 S 676153-005

MSD Sample Id: 676153-005 SD

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 301 508 20 10.27.2020 21:29 200 104 502 101 90-110 1 mg/kg

Analytical Method: TPH by SW8015 Mod

3140768 Seq Number:

Matrix: Solid

SW8015P Prep Method:

Date Prep: 10.27.2020

MB Sample Id: 7714018-1-BLK LCS Sample Id: 7714018-1-BKS LCSD Sample Id: 7714018-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Result Amount %Rec %Rec Date Result Gasoline Range Hydrocarbons (GRO) 10.27.2020 22:32 1070 35 < 50.0 1000 107 1160 116 70-135 8 mg/kg 10.27.2020 22:32 Diesel Range Organics (DRO) 70-135 12 35 < 50.0 1000 920 92 1040 104 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 10.27.2020 22:32 1-Chlorooctane 106 86 127 70-135 % 10.27.2020 22:32 o-Terphenyl 107 80 133 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

Matrix: Solid

Prep Method: Date Prep: SW8015P

3140768

MB Sample Id: 7714018-1-BLK

10.27.2020

Parameter Motor Oil Range Hydrocarbons (MRO)

MBResult

Units

Analysis Date

Flag

Flag

< 50.0

mg/kg

10.27.2020 22:12

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample = Parent Result

= MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

QC Summary 676136

LT Environmental, Inc.

PLU 303H C7B

Analytical Method: TPH by SW8015 Mod

Seq Number: 3140768

Prep Method: 10.27.2020

SW8015P

Date Prep:

Parent Sample Id:	676136-001		MS Saı	mple Id:	676136-0	01 S		MS	D Sampl	e Id: 6761	36-001 SD
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date

Matrix: Soil

Gasoline Range Hydrocarbons (GRO) < 50.2 1000 1080 108 1110 70-135 mg/kg 10.27.2020 23:32 3 35 111 10.27.2020 23:32 70-135 35 mg/kg Diesel Range Organics (DRO) < 50.2 1000 1250 125 1270 2 127

MSD Limits Analysis MS MS Units MSD **Surrogate** %Rec Flag Flag Date %Rec 10.27.2020 23:32 1-Chlorooctane 125 125 70-135 % 104 10.27.2020 23:32 o-Terphenyl 113 70-135 %

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method: 3140788 Seq Number: Matrix: Solid Date Prep: 10.27.2020

7714021-1-BLK LCS Sample Id: 7714021-1-BKS LCSD Sample Id: 7714021-1-BSD MB Sample Id:

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.101	101	0.104	104	70-130	3	35	mg/kg	10.28.2020 00:14
Toluene	< 0.00200	0.100	0.0989	99	0.0982	98	70-130	1	35	mg/kg	10.28.2020 00:14
Ethylbenzene	< 0.00200	0.100	0.0989	99	0.101	101	71-129	2	35	mg/kg	10.28.2020 00:14
m,p-Xylenes	< 0.00400	0.200	0.202	101	0.208	104	70-135	3	35	mg/kg	10.28.2020 00:14
o-Xylene	< 0.00200	0.100	0.101	101	0.103	103	71-133	2	35	mg/kg	10.28.2020 00:14

MBMB LCS LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 10.28.2020 00:14 1,4-Difluorobenzene 106 101 100 70-130 % 10.28.2020 00:14 4-Bromofluorobenzene 109 111 70-130 % 117

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method: Seq Number: 3140788 Matrix: Soil Date Prep: 10.27.2020

Parent Sample Id: 676136-001 MS Sample Id: 676136-001 S MSD Sample Id: 676136-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.112	112	0.0978	98	70-130	14	35	mg/kg	10.28.2020 00:59	
Toluene	< 0.00201	0.100	0.105	105	0.0938	94	70-130	11	35	mg/kg	10.28.2020 00:59	
Ethylbenzene	< 0.00201	0.100	0.107	107	0.0953	95	71-129	12	35	mg/kg	10.28.2020 00:59	
m,p-Xylenes	< 0.00402	0.201	0.216	107	0.195	97	70-135	10	35	mg/kg	10.28.2020 00:59	
o-Xylene	< 0.00201	0.100	0.108	108	0.0977	98	71-133	10	35	mg/kg	10.28.2020 00:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		93		70-130	%	10.28.2020 00:59
4-Bromofluorobenzene	113		102		70-130	%	10.28.2020 00:59

E = MSD/LCSD Result

Received by OCD: 12/23/2020 8:06:26 AM Page 119 of 167

X			Houston,TX (281) 240-	4200 Dallas.	TX (214)	902-0300 S	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio.TX (210) 509-3334		Work Order No:	9:	216
LAB	DRATORIES	Hobbs,NM	Midland, TX (432-704- (575-392-7550) Phoenii	5440) EL Pa x.AZ (480-35	aso,TX (91 5-0900) /	5)585-3443 tlanta.GA (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)	20-2000)	www.xenco.com	Page (9, ——
Project Manager:	Tacoma M	Mo5515552	Bill to: (if different)	rent) Ky	Kyle Littrell				Work Order Comments		
	ntal,	, Permian office	Company Name:		XTO Energy			Program: UST/PST		fields RC _uperfund	fund 🗆
	3300 North A St. Bldg 1, Unit 222	1, Unit 222	Address:		3104 E Greene St.	ene St.		State of Project:	MN		
City, State ZIP:	Midland, TX 79705		City, State ZIP:		Carlsbad, NM	M		Reporting:Level II	Reporting:Level II evel III ST/UST	RRP	evel IV
	(432) 704-5178		Email: tmorrissey@	@ltenv.con	n tcasey	@ltenv.co	Email: tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com	Deliverables: EDD	ADaPT []	Other:	
Project Name:	PLU 30314	673	Turn Around				ANALYSIS REQUEST	ST	1	Work Order Notes	lotes
er:	1,		Routine								
Sampler's Name:	Travis Casey		Due Date:								
SAMPLE RECEIPT	PT Temp Blank:	(Yes) No	Wet Ice: Yes No								
Temperature (°C):	1.8/1.6	(0	ners							
Received Intact:	(Pes No	THE	MN007			00.0					
Sample Custody Seals:	Yes No N/A	Total Containers:	tainers:			(EPA				TAT starts the day recevied by the lab, if received by 4:30pm	evied by the 4:30pm
Sample Identification	fication Matrix	Date Sampled	Time Depth	Numb	втех (Chlorid				Sample Comments	nents
BHOH	5	1004120 09	0934 11		86	^				Dix 1-tc	
BHOHA			0948 41	7 0	×	R					
BHOS		0949	11 64	- 4		^					
84954		8360	14 85	- *	>	>					
					0						
Total 200.7 / 6010 Circle Method(s) &	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	- φ	RCRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA	Sp Sp	As As	Ba Be B Cd Ba Be Cd Cr	Ca Cr Co Co Cu Pb	Cu Fe Pb Mg Mn Mo Ni K Mn Mo Ni Se Ag TI U	Se Ag SiO2	Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	171 : Hg
otice: Signature of this do service. Xenco will be lia Xenco. A minimum charg	stice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract 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 loss Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will	f samples constitutes a research shall not assume each project and a char	valid purchase order from any responsibility for an ge of \$5 for each sample :	client compa ny losses or ex submitted to)	ny to Xeno openses in Kenco, but	o, its affiliate curred by the	otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	tors. It assigns standard terms and condi- tes are due to circumstances beyond the c- be enforced unless previously negotiated.	litions control t.		
Relinquished by: (Signature)	(Signature)	Received by: (Signature)	ignature)	Dat	Date/Time		Relinquished by: (Signature)	e) Recei	Received by: (Signature)	e) Date/Time	Time
In Sc	7	1		02/92/01	(6=50	50 ²					
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						d					

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 10.26.2020 04.50.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 676136

Analyst:

Temperature Measuring device used: T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1.6	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	er/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquished	ed/ received?	Yes	
#10 Chain of Custody agrees with sample lat	pels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated to	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headspa	ce?	N/A	

* Must be	completed for	after-hours	delivery of	samples	prior to	placing in	the i	refrigerato	16

Checklist completed by:	Cloe Clifton	Date: <u>10.27.2020</u>
Checklist reviewed by:	Jessica Vramer Jessica Kramer	Date: <u>10.27.2020</u>

PH Device/Lot#:

eurofins Environment Testing

Certificate of Analysis Summary 676137

LT Environmental, Inc., Arvada, CO

Project Id: Contact:

Project Location:

012920144

Project Name: PLU 303H C7B

Date Received in Lab: Mon 10.26.2020 16:50

Dan Moir

Report Date: 10.29.2020 09:04

Project Manager: Jessica Kramer

1 Toject Bocation.						1 Toject N	ianagei.	
	Lab Id:	676137-0	001	676137-00)2			
Analysis Roquested	Field Id:	BH06	5	BH07				
Analysis Requesica	Depth:	1- ft		1- ft				
	Matrix:	SOIL		SOIL				
	Sampled:	10.26.2020	13:14	10.26.2020 1	3:18			
BTEX by EPA 8021B	Extracted:	10.27.2020	17:05	10.27.2020 1	7:05			
	Analyzed:	10.28.2020	03:49	10.28.2020 (04:11			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		< 0.00199	0.00199	< 0.00200	0.00200			
Toluene		< 0.00199	0.00199	< 0.00200	0.00200			
Ethylbenzene		< 0.00199	0.00199	< 0.00200	0.00200			
Analysis Requested BTEX by EPA 8021B Extraction Analyty Units enzene coluene thylbenzene n.p-Xylenes -Xylene otal Xylenes otal BTEX Chloride by EPA 300 Extraction Analyty Units thloride TPH by SW8015 Mod Extraction Analyty Units dissoline Range Hydrocarbons (GRO) friesel Range Organics (DRO) International Extraction International		< 0.00398	0.00398	< 0.00400	0.00400			
Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes		< 0.00199	0.00199		0.00200			
Total Xylenes		< 0.00199	0.00199	< 0.00200	0.00200			
Total BTEX		< 0.00199	0.00199	< 0.00200	0.00200			
Chloride by EPA 300	Extracted:	10.27.2020	14:02	10.27.2020 1	4:02			
	Analyzed:	10.27.2020	20:35	10.27.2020 2	20:53			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride	·	17.1	9.98	24.8	9.98			
TPH by SW8015 Mod	Extracted:	10.27.2020	16:58	10.27.2020 1	6:58			
	Analyzed:	10.28.2020	01:11	10.28.2020 (01:31			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<50.2	50.2			
Diesel Range Organics (DRO)		< 50.0	50.0	<50.2	50.2			
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<50.2	50.2			
Total GRO-DRO		< 50.0	50.0	<50.2	50.2			

BRL - Below Reporting Limit

Total TPH

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

< 50.0

50.0

Jessica Vramer

< 50.2

50.2



Analytical Report 676137

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303H C7B 012920144 10.29.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



10.29.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676137

PLU 303H C7B Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676137. 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 Eurofins Xenco, LLC. 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. 676137 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH06	S	10.26.2020 13:14	1 ft	676137-001
BH07	S	10.26.2020 13:18	1 ft	676137-002

Page 125 of 167

CASE NARRATIVE

eurofins Environment Testing Xenco

Client Name: LT Environmental, Inc. Project Name: PLU 303H C7B

 Project ID:
 012920144
 Report Date:
 10.29.2020

 Work Order Number(s):
 676137
 Date Received:
 10.26.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: BH06

Matrix: Soil

Date Received:10.26.2020 16:50

Lab Sample Id: 676137-001

Date Collected: 10.26.2020 13:14

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech: Analyst: MAB

MAB

Date Prep: 10.27.2020 14:02

% Moisture:

Seq Number: 3140756

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.1	9.98	mg/kg	10.27.2020 20:35		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

Analyst: CAC Seq Number: 3140768 Date Prep: 10.27.2020 16:58

% Moisture:

Basis:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	mg/kg	10.28.2020 01:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	mg/kg	10.28.2020 01:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	mg/kg	10.28.2020 01:11	U	1
Total GRO-DRO	PHC628	< 50.0	50.0	mg/kg	10.28.2020 01:11	U	1
Total TPH	PHC635	< 50.0	50.0	mg/kg	10.28.2020 01:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.28.2020 01:11	
o-Terphenyl	84-15-1	114	%	70-135	10.28.2020 01:11	

Certificate of Analytical Results 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: BH06 Matrix: Soil

Date Received:10.26.2020 16:50

Lab Sample Id: 676137-001 Date Collected: 10.26.2020 13:14

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

MAB

Prep Method: SW5035A

Tech: MAB

Analyst:

Date Prep: 10.27.2020 17:05

% Moisture:

Seq Number: 3140788

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.28.2020 03:49	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.28.2020 03:49	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.28.2020 03:49	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.28.2020 03:49	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.28.2020 03:49	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.28.2020 03:49	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.28.2020 03:49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	70-130	10.28.2020 03:49		
1,4-Difluorobenzene		540-36-3	106	%	70-130	10.28.2020 03:49		

Certificate of Analytical Results 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: **BH07**

Seq Number: 3140756

Matrix:

Date Received:10.26.2020 16:50

Lab Sample Id: 676137-002

Soil Date Collected: 10.26.2020 13:18

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep:

10.27.2020 14:02

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.8	9.98	mg/kg	10.27.2020 20:53		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3140768 Date Prep: 10.27.2020 16:58 % Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	10.28.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	10.28.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	10.28.2020 01:31	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	10.28.2020 01:31	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	10.28.2020 01:31	U	1
Surrogate	C	as Number 0	& Recovery	Units	Limits	Analysis Date	Flaσ	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	117	%	70-135	10.28.2020 01:31
o-Terphenyl	84-15-1	120	%	70-135	10.28.2020 01:31

Wet Weight

Xenco

Certificate of Analytical Results 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id: BH07 Matrix: Soil Date Received:10.26.2020 16:50

Lab Sample Id: 676137-002 Date Collected: 10.26.2020 13:18 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 10.27.2020 17:05 % Moisture: Basis:

Seq Number: 3140788

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.28.2020 04:11	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.28.2020 04:11	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.28.2020 04:11	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.28.2020 04:11	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.28.2020 04:11	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.28.2020 04:11	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.28.2020 04:11	U	1
C	C-	- N	0/ D	T	T ::4	A l D-4-	El	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	10.28.2020 04:11	
1,4-Difluorobenzene	540-36-3	109	%	70-130	10.28.2020 04:11	



Flagging Criteria

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

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

MB Sample Id:

QC Summary 676137

LT Environmental, Inc.

PLU 303H C7B

Analytical Method: Chloride by EPA 300

Seq Number: 3140756

Matrix: Solid 7714019-1-BLK LCS Sample Id: 7714019-1-BKS

Prep Method: Date Prep: 10.27.2020

Prep Method:

Prep Method:

LCSD Sample Id: 7714019-1-BSD

E300P

E300P

E300P

Flag

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

Chloride <10.0 250 106 262 90-110 20 10.27.2020 19:48 264 105 1 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3140756 Matrix: Soil Date Prep: 10.27.2020

MS Sample Id: 676136-001 S MSD Sample Id: 676136-001 SD Parent Sample Id: 676136-001

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

10.27.2020 20:06 Chloride <10.0 200 209 105 206 102 90-110 1 20 mg/kg

Analytical Method: Chloride by EPA 300

3140756 Seq Number: Matrix: Soil Date Prep: 10.27.2020

MS Sample Id: 676153-005 S MSD Sample Id: 676153-005 SD Parent Sample Id: 676153-005

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

Chloride 301 508 20 10.27.2020 21:29 200 104 502 101 90-110 1 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3140768 Matrix: Solid Seq Number: Date Prep: 10.27.2020

MB Sample Id: 7714018-1-BLK LCS Sample Id: 7714018-1-BKS LCSD Sample Id: 7714018-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis

Parameter Result Limit Result Amount %Rec %Rec Date Result Gasoline Range Hydrocarbons (GRO) 10.27.2020 22:32 1070 35 < 50.0 1000 107 1160 116 70-135 8 mg/kg 10.27.2020 22:32 Diesel Range Organics (DRO) 70-135 12 35 < 50.0 1000 920 92 1040 104 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 10.27.2020 22:32 1-Chlorooctane 106 86 127 70-135 % 10.27.2020 22:32 o-Terphenyl 107 80 133 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3140768 Matrix: Solid Date Prep: 10.27.2020

MB Sample Id: 7714018-1-BLK

MBUnits Analysis Flag **Parameter** Result Date

Motor Oil Range Hydrocarbons (MRO) 10.27.2020 22:12 < 50.0 mg/kg

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Seq Number:

Parent Sample Id:

MB Sample Id:

QC Summary 676137

LT Environmental, Inc.

PLU 303H C7B

676136-001 S

Analytical Method: TPH by SW8015 Mod

3140768

676136-001

Matrix: Soil

MS Sample Id:

SW8015P Prep Method:

Date Prep: 10.27.2020

MSD Sample Id: 676136-001 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.2 1000 1080 108 3 35 10.27.2020 23:32 1110 70-135 111 mg/kg 10.27.2020 23:32 2 mg/kg Diesel Range Organics (DRO) < 50.2 1000 1250 125 1270 70-135 35 127

MSD Limits Units MS MS Analysis MSD **Surrogate** %Rec Flag Flag Date %Rec 10.27.2020 23:32 1-Chlorooctane 125 125 70-135 % 104 10.27.2020 23:32 o-Terphenyl 113 70-135 %

Analytical Method: BTEX by EPA 8021B

3140788 Seq Number:

7714021-1-BLK

Matrix: Solid

LCS Sample Id: 7714021-1-BKS

111

Prep Method:

SW5035A

10.27.2020

Date Prep: LCSD Sample Id: 7714021-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.101	101	0.104	104	70-130	3	35	mg/kg	10.28.2020 00:14	
Toluene	< 0.00200	0.100	0.0989	99	0.0982	98	70-130	1	35	mg/kg	10.28.2020 00:14	
Ethylbenzene	< 0.00200	0.100	0.0989	99	0.101	101	71-129	2	35	mg/kg	10.28.2020 00:14	
m,p-Xylenes	< 0.00400	0.200	0.202	101	0.208	104	70-135	3	35	mg/kg	10.28.2020 00:14	
o-Xylene	< 0.00200	0.100	0.101	101	0.103	103	71-133	2	35	mg/kg	10.28.2020 00:14	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSE %Rec		_	imits	Units	Analysis Date	
1,4-Difluorobenzene	106		10	01		100		70)-130	%	10.28.2020 00:14	

Analytical Method: BTEX by EPA 8021B

117

Seq Number: 3140788 Parent Sample Id:

4-Bromofluorobenzene

676136-001

Matrix: Soil

MS Sample Id: 676136-001 S

109

Prep Method: Date Prep:

70-130

SW5035A

10.28.2020 00:14

10.27.2020

MSD Sample Id: 676136-001 SD

%

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.112	112	0.0978	98	70-130	14	35	mg/kg	10.28.2020 00:59	
Toluene	< 0.00201	0.100	0.105	105	0.0938	94	70-130	11	35	mg/kg	10.28.2020 00:59	
Ethylbenzene	< 0.00201	0.100	0.107	107	0.0953	95	71-129	12	35	mg/kg	10.28.2020 00:59	
m,p-Xylenes	< 0.00402	0.201	0.216	107	0.195	97	70-135	10	35	mg/kg	10.28.2020 00:59	
o-Xylene	< 0.00201	0.100	0.108	108	0.0977	98	71-133	10	35	mg/kg	10.28.2020 00:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		93		70-130	%	10.28.2020 00:59
4-Bromofluorobenzene	113		102		70-130	%	10.28.2020 00:59

E = MSD/LCSD Result

Revised Date 051418 Rev. 2018.1



Chain of Custody

Work Order No: 676137

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 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Company Name Comp	<i>Release</i>						5	1	1	ъ I а	
PRP Brownfields RC Luperfund NM NM ST/UST RRP Bvel IV ADaPT Other: Work Order Notes TAT starts the day received by the lab, if received by 4:30pm Sample Comments District Sample Comments NGS SiO2 Na Sr T Sn U V Zn 1631/245.1/7470 / 7471 : Hg PM Date/Time Date/Time	ed to			2	16-50	10/76			1	Tarsh	
Work Order Comments PRP) Im) Received by: (Signature)	Relinquished by: (Signature)ate/Time		y: (Signature)	Received b	gnature)	Relinquished by: (Si	
Work Order Comments PRP Brownfields RC	aging		ndard terms and conditions mistances beyond the control s previously negotiated.	illates and subcontractors. It assigns sta y the client if such losses are due to circu yzad. These terms will be enforced unless	npany to xenco, its am or expenses incurred by to Xenco, but not analy	lity for any losses of sample submitted	a charge of \$5 for each	early research and a sach project and	only for the cost of sample fs75.00 will be applied to	of service. Xenco will be liable of Xenco. A minimum charge	
Constitution Company Name: Company Name: Constitution Company Name: Constitution Company Name: Constitution	: 4/8/2	11 11	2002	d Cr Co Cu Pb Mn Mo Ni S	Sb As Ba Be C	10: 8RCRA \$	TCLP / SPLP 60	alyzed	nd Metal(s) to be an	Circle Method(s) a	
Billion Company Name: Co	021 .			2 2 2 2	As Bo Bo		13PPM	8	200.8 / 6020:	Total 200.7 / 6010	
Card Park All of h S = y Billio (I almont) Kiyle Litrell Work Order Comments T Environmental, Inc., Permise office Campany Name: Campany N	3:11										
Recommendal_IncPermian office	:09										
	PM										
Card Mark Mark Mark Order Comments Work Order Comments T Environmental, Inc., Permian office Company Name: XTO Energy State of Project: NM Program: UST/PST PRP Program: UST/PST P											
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Tenvironmental, Inc., Permian office Company Name: XTO Energy											
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Mork Order Comments Inc. Permitan office Company Name: XTO Energy State of Project: NM		- 0000			> × <	' '	1			31107	
Mork Order Comments	_	ristate	7			- 1		10/2010	5	B1106	
TENVironmental, Inc., Permian office Company Name: XTO Energy State of Project: NM		Sample Comments			BTEX (Date Sampled	=	Sample Identific	
Manager: /a Co M2		lab, if received by 4:30pm			EPA 8			Tota	No.	Sample Custody Seals:	
Manager: I ACOMPC, MOS, ISS x Bill to: (# different) Kyle Littrell Work Order Comments ny Name: LT Environmental, Inc., Permian office Company Name: XTO Energy Program: UST/PST PRP Prownfields RC Luperfund Depriumd Program: UST/PST PRP Prownfields RC Luperfund Depriumd PRP Prownfields RC Luperfund Depriumd State of Project: NM state ZIP: Midland, TX 79705 Email: Imorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com Reporting:Level III ST/UST RRP Povel IV Depriumd Deprium		***************************************			3021	7.	1	Corre		Cooler Custody Seals:	
Manager: Incompension Incompen	_				_	ntaio	TUMOO 7		7	Received Intact:	
Manager: Incompared Mort, 185+y Bill to: (fl different) Kyle Littrell Work Order Comments Work Order Comments Rough Program: UST/PST Program: UST	_							(1.8/16	Temperature (°C):	
Manager: /acomet,								Yes		SAMPLE RECEIP	
Manager: I a COMPLA MOIN, SSEX Bill for (if different) Kyle Littrell Work Order Comments ny Name: LT Environmental, Inc., Permian office Company Name: XTO Energy Program: UST/PST □ PRP □ Brownfields □ RC □ Liperfund □ s: 3300 North A St. Bldg 1, Unit 222 Address: 3104 E Greene St. Program: UST/PST □ PRP □ Brownfields □ RC □ Liperfund □ state of Project: NM dt 22) 704-5178 Email: tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com Deliverables: EDD □ ADaPT □ Other: Number: PLU 303 H C7B □ RRP □ St. Routine R □ Rush: ANALYSIS REQUEST Work Order Notes	_						Due Date		avis Casey		
Manager: /a Co M2 (M2 M2 f), 185 ≥ y Bill to: (if different) Kyle Littrell Work Order Comments ny Name: LT Environmental, Inc., Permian office Company Name: XTO Energy Program: UST/PST □ PRP □ Brownfields □ Rc □ Uperfund □ s: 3300 North A St. Bidg 1, Unit 222 Address: 3104 E Greene St. Program: UST/PST □ PRP □ Brownfields □ Rc □ Uperfund □ state of Project: NM wate ZIP: Midland, TX 79705 Email: tmorrissey@itenv.com tcasey@itenv.com kjennings@itenv.com Reporting:Level III □ PST/UST □ RRP □ Pvel IV □ Name: PLU 303 H 273 Turn Around ANALYSIS REQUEST Deliverables: EDD □ ADaPT □ Other: Work Order Notes			•				Rush:			P.O. Number:	
Manager: /a Co M2 (Mork) 76 fr, \$S > y Bill to: (if different) Kyle Littrell Work Order Comments my Name: LT Environmental, Inc., Permian office Company Name: XTO Energy Program: UST/PST PRP Brownfields Rc Juperfund Rc Juperfund st 3300 North A St. Bldg 1, Unit 222 Address: 3104 E Greene St. State of Project: NM ste ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM Reporting:Level III PST/UST RRP PVel IV ST/UST RRP PVel IV Name: PLU 3-03 H 273 Turn Around ANALYSIS REQUEST Deliverables: EDD PRP Brownfields RC Juperfund Work Order Notes						X)	Routine		12920144		
Manager: /a Co M24 M7 of n, s S + y Bill to: (if different) Kyle Littrell Work Order Comments ny Name: LT Environmental, Inc., Permian office Company Name: XTO Energy Program: UST/PST PRP Brownfields RC Juperfund State of Project: NM s: 3300 North A St. Bldg 1, Unit 222 Address: 3104 E Greene St. State of Project: NM stet ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM Reporting: Level III Level III PST/UST RRP Svel IV 432) 704-5178 Email: tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com Deliverables: EDD ADaPT Other:		Work Order Notes	ST	ANALYSIS REQUES		round	Turn A	17	303		
E: ACOMPC, MOCA, SSCY Bill to: (if different) Kyle Littrell Work Order Comments E: LT Environmental, Inc., Permian office Company Name: XTO Energy Program: UST/PST PRP Brownfields RC Luperfund State of Project: NM Midland, TX 79705 City, State ZIP: Carlsbad, NM Reporting:Level II Level III ST/UST RRP Bvel IV	1.00			v.com kjennings@ltenv.con	com tcasey@lten	rrissey@ltenv.	Email: tmo		32) 704-5178		
Name: LT Environmental, Inc., Permian office Company Name: XTO Energy XTO Energy Program: UST/PST □ PRP □ Prownfields □ RC Program: UST/PST □ PRP □ Prownfields □ RC 3300 North A St. Bldg 1, Unit 222 Address: 3104 E Greene St. State of Project: NM		□ RRP			Carlsbad, NM	, State ZIP:	City		dland, TX 79705		
LT Environmental, Inc., Permian office Company Name: XTO Energy Program: UST/PST PRP Brownfields RC			State of Project: NM		3104 E Greene St	ress:	Add	1, Unit 222	00 North A St. Bldg		
lacome Mor, ssex Bill to: (# different) Kyle Littrell		ह	Program: UST/PST PRP Brownfiel		XTO Energy	npany Name:		, Permian of	Environmental, Inc.		
	-	mments	Work Order Cor		Kyle Littrell	to: (if different)		061185		Project Manager:	

Page 13 of 14

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.26.2020 04.50.00 PM

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

Work Order #: 676137

Analyst:

Temperature Measuring device used: T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.6	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	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	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Checklist completed by:	Cloe Clifton	Date: <u>10.27.2020</u>
Checklist reviewed by:	Jessica Vramer	Date: <u>10.27.2020</u>

PH Device/Lot#:

eurofins Environment Testing

Certificate of Analysis Summary 676674

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303H CTB

Project Id: Contact:

Project Location:

012920144

Dan Moir

Date Received in Lab: Mon 11.02.2020 15:10

Report Date: 11.05.2020 11:50

Project Manager: Jessica Kramer

	Lab Id:	676674-0	001	676674-0	02	676674-0	003	676674-0	004	676674-0	05	
Analysis Requested	Field Id:	FS01A	A	FS06A	.	FS09A		FS12A		BH01B		
Analysis Requesica	Depth:	1- ft		1- ft		1- ft		1- ft		3- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	11.02.2020	12:05	11.02.2020	11:25	11.02.2020	11:10	11.02.2020	10:30	11.02.2020	12:40	
BTEX by EPA 8021B	Extracted:	11.03.2020	09:30	11.03.2020	09:30	11.03.2020	09:30	11.03.2020	09:30	11.03.2020	09:30	
	Analyzed:	11.03.2020	14:18	11.03.2020	14:40	11.03.2020	15:02	11.03.2020	15:25	11.03.2020	15:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	
Toluene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	
Ethylbenzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	
m,p-Xylenes		< 0.00399	0.00399	< 0.00403	0.00403	< 0.00401	0.00401	< 0.00398	0.00398	< 0.00399	0.00399	
o-Xylene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	
Total Xylenes		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	
Total BTEX		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	11.02.2020	11.02.2020 16:33 1		11.02.2020 16:33		16:33	11.02.2020 16:33		11.02.2020 16:33		
	Analyzed:	11.02.2020	19:55	11.02.2020	20:01	11.02.2020 20:06		11.02.2020 20:11		11.02.2020	20:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		5710	49.5	4900	50.5	8810	49.6	2500	49.9	49.8	10.0	
TPH by SW8015 Mod	Extracted:	11.02.2020	16:30	11.02.2020	16:30	11.02.2020	16:30	11.02.2020	16:30	11.02.2020	16:30	
	Analyzed:	11.03.2020	00:19	11.03.2020	00:39	11.03.2020	00:59	11.03.2020	01:19	11.03.2020	01:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	< 50.2	50.2	<49.8	49.8	< 50.0	50.0	
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8	< 50.2	50.2	<49.8	49.8	< 50.0	50.0	
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	< 50.2	50.2	<49.8	49.8	<50.0	50.0	
Total GRO-DRO		<49.9	49.9	<49.8	49.8	< 50.2	50.2	<49.8	49.8	<50.0	50.0	
Total TPH		<49.9	49.9	<49.8	49.8	< 50.2	50.2	<49.8	49.8	< 50.0	50.0	

BRL - Below Reporting Limit

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

Jessica Vramer



Analytical Report 676674

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303H CTB 012920144 11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.05.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676674

PLU 303H CTB Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676674. 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 Eurofins Xenco, LLC. 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. 676674 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01A	S	11.02.2020 12:05	1 ft	676674-001
FS06A	S	11.02.2020 11:25	1 ft	676674-002
FS09A	S	11.02.2020 11:10	1 ft	676674-003
FS12A	S	11.02.2020 10:30	1 ft	676674-004
BH01B	S	11.02.2020 12:40	3 ft	676674-005

Page 139 of 167

CASE NARRATIVE

eurofins Environment Testing Xenco

Client Name: LT Environmental, Inc.

Project Name: PLU 303H CTB

 Project ID:
 012920144
 Report Date:
 11.05.2020

 Work Order Number(s):
 676674
 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS01A

Matrix:

Date Received:11.02.2020 15:10

Lab Sample Id: 676674-001

Soil Date Collected: 11.02.2020 12:05

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst: Seq Number: 3141207 Date Prep: 11.02.2020 16:33 % Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5710	49.5	mg/kg	11.02.2020 19:55		5

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CACAnalyst: Seq Number: 3141201

Date Prep:

11.02.2020 16:30

% Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	11.03.2020 00:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	11.03.2020 00:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	11.03.2020 00:19	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	11.03.2020 00:19	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	11.03.2020 00:19	U	1
Surrogate	C	as Number '	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	122	%	70-135	11.03.2020 00:19
o-Terphenyl	84-15-1	120	%	70-135	11.03.2020 00:19

Wet Weight

Xenco

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS01A Matrix: Soil Date Received:11.02.2020 15:10

Lab Sample Id: 676674-001 Date Collected: 11.02.2020 12:05 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3141311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	mg/kg	11.03.2020 14:18	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	11.03.2020 14:18	
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.03.2020 14:18	

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS06A

Seq Number: 3141207

Matrix: Soil Date Received:11.02.2020 15:10

Lab Sample Id: 676674-002

Date Collected: 11.02.2020 11:25

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB MAB

Date Prep:

11.02.2020 16:33

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4900	50.5	mg/kg	11.02.2020 20:01		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3141201 Date Prep: 11.02.2020 16:30 % Moisture:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	11.03.2020 00:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	11.03.2020 00:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	11.03.2020 00:39	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	11.03.2020 00:39	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	11.03.2020 00:39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	126	%	70-135	11.03.2020 00:39
o-Terphenyl	84-15-1	123	%	70-135	11.03.2020 00:39

Wet Weight

U

1

11.03.2020 14:40

mg/kg

Xenco

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS06A Matrix: Soil Date Received:11.02.2020 15:10

Lab Sample Id: 676674-002 Date Collected: 11.02.2020 11:25 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3141311

Total BTEX

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
Toluene	108-88-3	< 0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	mg/kg	11.03.2020 14:40	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1

0.00202

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.03.2020 14:40	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.03.2020 14:40	

< 0.00202

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS09A

Matrix: Soil Date Received:11.02.2020 15:10

Lab Sample Id: 676674-003

Date Collected: 11.02.2020 11:10

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst: Seq Number: 3141207 Date Prep:

11.02.2020 16:33

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8810	49.6	mg/kg	11.02.2020 20:06		5

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

CACAnalyst: Seq Number: 3141201

Date Prep:

11.02.2020 16:30

% Moisture:

Prep Method: SW8015P

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.03.2020 00:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	11.03.2020 00:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	11.03.2020 00:59	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	11.03.2020 00:59	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	11.03.2020 00:59	U	1
Surrogate	C	as Number 0	6 Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	127	%	70-135	11.03.2020 00:59
o-Terphenyl	84-15-1	125	%	70-135	11.03.2020 00:59

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS09A Matrix: Soil Date Received:11.02.2020 15:10

Lab Sample Id: 676674-003 Date Collected: 11.02.2020 11:10 Sample Depth: 1 ft

Prep Method: SW5035A

Analytical Method: BTEX by EPA 8021B

Trop Intention 5

Tech: MAB

% Moisture:

Analyst: MAB

Seq Number: 3141311

Date Prep: 11.03.2020 09:30

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	mg/kg	11.03.2020 15:02	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.03.2020 15:02	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.03.2020 15:02	

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS12A

Seq Number: 3141207

Matrix: Soil

Date Received:11.02.2020 15:10

Lab Sample Id: 676674-004

Date Collected: 11.02.2020 10:30

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

P

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep:

11.02.2020 16:33

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2500	49.9	mg/kg	11.02.2020 20:11		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: MAB

CAC

Seq Number: 3141201

Date Prep:

11.02.2020 16:30

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	11.03.2020 01:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	11.03.2020 01:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	11.03.2020 01:19	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	11.03.2020 01:19	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	11.03.2020 01:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	F
1-Chlorooctane	111-85-3	117	%	70-135	11.03.2020 01:19	
o-Terphenyl	84-15-1	118	%	70-135	11.03.2020 01:19	

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS12A Matrix: Soil Date Received:11.02.2020 15:10

Lab Sample Id: 676674-004

Date Collected: 11.02.2020 10:30

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Analyst:

MAB

Date Prep:

% Moisture: 11.03.2020 09:30

Basis:

Wet Weight

Tech: MAB

Seq Number: 3141311

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	11.03.2020 15:25	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	11.03.2020 15:25	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	11.03.2020 15:25	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	11.03.2020 15:25	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	11.03.2020 15:25	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	11.03.2020 15:25	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	11.03.2020 15:25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.03.2020 15:25		
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.03.2020 15:25		

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: BH01B Matrix: Soil Date Received:11.02.2020 15:10

Lab Sample Id: 676674-005

Date Collected: 11.02.2020 12:40

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB

MAB Date Prep: % Moisture:

11.02.2020 16:33

Seq Number: 3141207

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	49.8	10.0	mg/kg	11.02.2020 20:17		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3141201 Date Prep: 11.02.2020 16:30 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	11.03.2020 01:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	11.03.2020 01:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	11.03.2020 01:39	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	11.03.2020 01:39	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	11.03.2020 01:39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	123	%	70-135	11.03.2020 01:39
o-Terphenyl	84-15-1	122	%	70-135	11.03.2020 01:39

Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: BH01B

Matrix: Soil

Date Received:11.02.2020 15:10

Lab Sample Id: 676674-005

Date Collected: 11.02.2020 12:40

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: MAB MAB

Date Prep:

11.03.2020 09:30

% Moisture:

Basis: Wet Weight

Tech: MAB

Seq Number: 3141311

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 15:47	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 15:47	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 15:47	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	11.03.2020 15:47	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 15:47	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 15:47	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 15:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.03.2020 15:47		
4-Bromofluorobenzene		460-00-4	114	%	70-130	11.03.2020 15:47		



Flagging Criteria

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

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

MB Sample Id:

Parameter

QC Summary 676674

LT Environmental, Inc.

PLU 303H CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3141207

7714384-1-BLK

MB

Result

Result

Spike

Amount

Matrix: Solid

LCS

%Rec

LCS Sample Id: 7714384-1-BKS

LCSD

%Rec

%Rec

LCSD

Result

E300P Prep Method:

Date Prep: 11.02.2020

LCSD Sample Id: 7714384-1-BSD

RPD Limits %RPD Units Analysis Flag Limit Date

Chloride <10.0 250 253 101 252 90-110 0 20 101 mg/kg

LCS

Result

Result

Analytical Method: Chloride by EPA 300

Seq Number: 3141207 Parent Sample Id:

676514-005

Matrix: Soil

%Rec

MS Sample Id: 676514-005 S

Result

Prep Method: Date Prep: 11.02.2020

Limit

Prep Method:

E300P

11.02.2020 18:55

Date

Flag

Flag

Flag

MSD Sample Id: 676514-005 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter**

11.02.2020 19:11 Chloride 3690 199 3900 106 3880 95 90-110 1 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3141207

Amount

Matrix: Soil

Date Prep:

11.02.2020

E300P

MS Sample Id: 676679-001 S MSD Sample Id: 676679-001 SD Parent Sample Id: 676679-001 Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis

Parameter Result Result Limit Date Amount %Rec Result %Rec Chloride 2 20 11.02.2020 20:28 344 200 530 93 542 99 90-110 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

3141201

Matrix: Solid

Prep Method: Date Prep:

SW8015P

11.02.2020

MB Sample Id: 7714382-1-BLK LCS Sample Id: 7714382-1-BKS LCSD Sample Id: 7714382-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 11.02.2020 18:36 91 35 < 50.0 1000 907 852 85 70-135 6 mg/kg 11.02.2020 18:36 Diesel Range Organics (DRO) 1040 104 1000 70-135 35 < 50.0 1000 100 4 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Flag Date Flag %Rec 11.02.2020 18:36 1-Chlorooctane 95 125 105 70-135 % 11.02.2020 18:36 o-Terphenyl 101 103 101 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3141201

Matrix: Solid

SW8015P

Date Prep: 11.02.2020

Prep Method:

MB Sample Id: 7714382-1-BLK

MB**Parameter**

Result

Units

Analysis Date

Flag

Motor Oil Range Hydrocarbons (MRO) < 50.0

mg/kg

11.02.2020 18:16

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

Flag

QC Summary 676674

LT Environmental, Inc.

PLU 303H CTB

927

93

2.

35

Analytical Method: TPH by SW8015 Mod

3141201 Seg Number:

Diesel Range Organics (DRO)

Parent Sample Id: 676514-007

< 50.2

910

Matrix: Soil MS Sample Id: 676514-007 S

SW8015P Prep Method:

Date Prep: 11.02.2020

mg/kg

MSD Sample Id: 676514-007 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.2 1000 837 84 0 35 11.02.2020 19:37 838 84 70-135 mg/kg 70-135 11.02.2020 19:37

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 11.02.2020 19:37 1-Chlorooctane 129 133 70-135 %

91

11.02.2020 19:37 o-Terphenyl 118 123 70-135 %

Analytical Method: BTEX by EPA 8021B

3141311 Seq Number:

Matrix: Solid

1000

SW5035A Prep Method:

11.03.2020

Date Prep: LCS Sample Id: 7714461-1-BKS LCSD Sample Id: 7714461-1-BSD MB Sample Id: 7714461-1-BLK

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 0.106 11.03.2020 09:56 < 0.00200 0.100 0.101 101 70-130 5 35 Benzene 106 mg/kg 11.03.2020 09:56 Toluene < 0.00200 0.100 0.0955 96 0.101 101 70-130 6 35 mg/kg 11.03.2020 09:56 Ethylbenzene 0.100 0.0976 98 0.102 71-129 4 35 < 0.00200 102 mg/kg 11.03.2020 09:56 m,p-Xylenes < 0.00400 0.200 0.197 99 0.205 103 70-135 4 35 mg/kg 11.03.2020 09:56 < 0.00200 0.100 0.0967 97 0.102 102 71-133 5 35 o-Xylene mg/kg

Limits MB MB LCS LCS LCSD LCSD Units Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 11.03.2020 09:56 1,4-Difluorobenzene 104 99 104 70-130 % 103 70-130 % 11 03 2020 09:56 4-Bromofluorobenzene 110 110

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141311 Parent Sample Id:

676514-007

Matrix: Soil

MS Sample Id: 676514-007 S

SW5035A Prep Method:

Date Prep: 11.03.2020

MSD Sample Id: 676514-007 SD

RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 11.03.2020 10:41 < 0.00201 0.101 0.107 106 0.0886 70-130 19 35 Benzene 89 mg/kg 11.03.2020 10:41 70-130 35 Toluene < 0.00201 0.101 0.0986 98 0.0879 88 11 mg/kg Ethylbenzene < 0.00201 0.101 0.0998 99 0.0910 91 71-129 9 35 11.03.2020 10:41 mg/kg 0.202 100 35 11.03.2020 10:41 m,p-Xylenes < 0.00402 0.201 0.186 93 70-135 8 mg/kg < 0.00201 0.101 0.102 101 0.0943 71-133 8 35 mg/kg 11.03.2020 10:41 o-Xylene 94

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 11.03.2020 10:41 1,4-Difluorobenzene 100 101 70-130 % 11.03.2020 10:41 4-Bromofluorobenzene 107 117 70-130 %

= MSD/LCSD Result



Phone:

City, State ZIP: Address:

Midland, Tx 79705 3300 North A Street LT Environmental, Inc.

(432) 236-3849

enaka@ltenv.com, dmoir@ltenv.com

City, State ZIP:

Carlsbad, NM 88220 522 West Mermond Company Name:

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Permian office Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Company Name: Bill to: (if different) XTO Energy Kyle Littrell

Program: UST/PST

□RP □ rownfields Work Order Comments

RC

perfund

www.xenco.com

Page

9

Deliverables: EDD Reporting:Level II State of Project:

ADaPT TSU/T8

Other:

_evel III

□_{RP}

Pvel IV

Project Name:	PLU 303H C1B	C113	Turn Around	bund				ANALYSIS REQUEST		Work Order Notes
Project Number:	01292W144		Routine	×						
P.O. Number:	Eddy County	unty	Rush:							
Sampler's Name:	Elizabeth Naka	Naka	Due Date:							
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice: (Yes)	No No						
Temperature (°C):	0.1/18.1		= [
Received Intact:	(Pos No	+	TUMO07	ıtaiı		21)	0.0)			
Cooler Custody Seals:	Yes No N/A	Correc	Correction Factor: - O-	83		=802	A 30			
Sample Custody Seals:	Yes (No) N/A	Total	Total Containers: 5			PA 0	(EP		TAI	TAT starts the day recevied by the lab, if received by 4:30pm
Sample Identification	ation Matrix	Date Sampled	Time Depth	lumbe	PH (EF	TEX (E	hloride			Sample Comments
1501 A	5	11/02/20	1205	,		×	×			tomos +
4506A			1125 11	, ,	>	×	×		C M	Camping K
Moca			1110 11	,	X	×	×		200	COMPOSIA
PZ KH			1030 1	,	×	×	×		140	Hyporosi H
9 long	4	*	1240 3	3.	×	×	×		4%	divert
1						-	111	TOPICAL		
						1	and	1000		
Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb	exas 11 / 0: 8RCRA	Sb A	s Ba	Be B Be Cd	Cd Ca Cr Co Cu Fe Pb Mg Mn Cr Co Cu Pb Mn Mo Ni Se Ag	Mo Ni K Se Ag SiO2 Ti U	Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg
suce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract 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 loss Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will	nent and relinquishment of only for the cost of sample of \$75.00 will be applied to	samples constitues and shall not a each project and	ites a valid purchase or ssume any responsibil a charge of \$5 for each	rder from clier lity for any los sample subm	nt compan ses or exp itted to Xe	y to Xend enses in enco, but	o, its aff curred by not anal	suce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	tors. It assigns standard terms and conditions ses are due to circumstances beyond the control be enforced unless previously negotiated.	
Relinquished by: (Signature)	gnature)	Received by	Received by: (Signature)		Date/Time	Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
My LAMP				11/2/20		15:10) 2			
		,					4			
	_						0			

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 11.02.2020 03.10.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 676674

Analyst:

Temperature Measuring device used: T NM 005

Date: 11.03.2020

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

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

Checklist completed by:	Ollans Martha Castro	Date: <u>11.02.2020</u>	
Checklist reviewed by:	Jessica Vramer	Date: 11.03.2020	

PH Device/Lot#:

eurofins Environment Testing

Certificate of Analysis Summary 678952

LT Environmental, Inc., Arvada, CO

Tacoma Morrissey

012920144

Project Name: PLU 303H CTB

Date Received in Lab: Tue 11.24.2020 11:37

Report Date: 11.30.2020 10:28

Project Manager: Jessica Kramer

Project Location:

Project Id:

Contact:

			-
	Lab Id:	678952-001	
Analysis Requested	Field Id:	FS05A	
muysis Requesicu	Depth:	0.5- ft	
	Matrix:	SOIL	
	Sampled:	11.24.2020 09:40	0
BTEX by EPA 8021B			
DIEA Dy El A 0021D	Extracted:	11.24.2020 15:36	
	Analyzed:	11.24.2020 22:57	
	Units/RL:	<i>U U</i>	RL
Benzene		<0.00200 0.002	
Toluene		<0.00200 0.000	
Ethylbenzene		<0.00200 0.002	
m,p-Xylenes		< 0.00401 0.004	
o-Xylene		<0.00200 0.002	
Total Xylenes		<0.002000 0.002	
Total BTEX		<0.002000 0.002	.000
Chloride by EPA 300	Extracted:	11.24.2020 14:00	0
	Analyzed:	11.24.2020 19:00	0
	Units/RL:	mg/kg I	RL
Chloride		3860 4	19.8
TPH by SW8015 Mod	Extracted:	11.24.2020 12:30	0
	Analyzed:	11.24.2020 20:33	3
	Units/RL:	mg/kg I	RL
Gasoline Range Hydrocarbons (GRO)		<49.8 4	19.8
Diesel Range Organics (DRO)		<49.8 4	19.8
Motor Oil Range Hydrocarbons (MRO)		<49.8 4	19.8
Total GRO-DRO		<49.80 49	9.80
Total TPH		<49.80 49	9.80

BRL - Below Reporting Limit

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

Jessica Wramer



Analytical Report 678952

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

PLU 303H CTB 012920144 11.30.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.30.2020

Project Manager: Tacoma Morrissey

LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 678952

PLU 303H CTB Project Address:

Tacoma Morrissey:

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 Eurofins Xenco, LLC Report Number(s) 678952. 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 Eurofins Xenco, LLC. 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. 678952 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 678952

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS05A	S	11.24.2020 09:40	0.5 ft	678952-001

Page 159 of 167

CASE NARRATIVE

eurofins Environment Testing Xenco

 ${\it Client Name: LT Environmental, Inc.}$

Project Name: PLU 303H CTB

 Project ID:
 012920144
 Report Date:
 11.30.2020

 Work Order Number(s):
 678952
 Date Received:
 11.24.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 678952

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS05A Matrix: Soil Date Received:11.24.2020 11:37

Lab Sample Id: 678952-001

Date Collected: 11.24.2020 09:40

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB Tech:

Analyst:

MAB

Date Prep: 11.24.2020 14:00 % Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Seq Number: 3143277

Analysis Date Parameter Cas Number Result RLUnits Flag Dil Chloride 16887-00-6 3860 49.8 11.24.2020 19:00 5 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CAC Analyst: Seq Number: 3143273

Date Prep: 11.24.2020 12:30 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	11.24.2020 20:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	11.24.2020 20:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	11.24.2020 20:33	U	1
Total GRO-DRO	PHC628	<49.80	49.80		mg/kg	11.24.2020 20:33	U	1
Total TPH	PHC635	<49.80	49.80		mg/kg	11.24.2020 20:33	U	1
Surrogate	0	'as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	112	%	70-135	11.24.2020 20:33
o-Terphenyl	84-15-1	111	%	70-135	11.24.2020 20:33

Wet Weight

Xenco

Certificate of Analytical Results 678952

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id: FS05A Matrix: Soil Date Received:11.24.2020 11:37

Lab Sample Id: 678952-001 Date Collected: 11.24.2020 09:40 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3143258

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.24.2020 22:57	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.24.2020 22:57	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.24.2020 22:57	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	11.24.2020 22:57	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.24.2020 22:57	U	1
Γotal Xylenes	1330-20-7	< 0.002000	0.002000		mg/kg	11.24.2020 22:57	U	1
Total BTEX		< 0.002000	0.002000		mg/kg	11.24.2020 22:57	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.24.2020 22:57	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.24.2020 22:57	



Flagging Criteria

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

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

QC Summary 678952

LT Environmental, Inc.

PLU 303H CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3143277

7715945-1-BLK

Matrix: Solid

Prep Method:

%RPD

E300P

Date Prep: 11.24.2020

7715945-1-BSD Units

MB Sample Id: **Parameter**

Chloride

LCS Sample Id:

7715945-1-BKS

LCSD

LCSD Sample Id: RPD

Analysis Flag

Result Amount <10.0

MB

LCS LCS Result %Rec 240

Result 238

LCSD

%Rec 95 90-110

Limits

1

Limit 20 mg/kg

Date 11.24.2020 15:42

Analytical Method: Chloride by EPA 300

Spike

200

201

Amount

Spike

250

Matrix: Soil

Prep Method: Date Prep: 11.24.2020

E300P

Seq Number: Parent Sample Id: 3143277 678846-001

MS Sample Id: 678846-001 S

90

96

MSD Sample Id: 678846-001 SD

11.24.2020 16:45

Parameter

Chloride

Parent Result

MS MS Result %Rec 2870

MSD Result 2890

MSD Limits %Rec 101

%RPD RPD Limit

1

Units

Analysis Flag Date

Analytical Method: Chloride by EPA 300

Matrix: Soil

97

90-110

90-110

E300P

mg/kg

Seq Number: Parent Sample Id: 3143277

MS Sample Id:

678848-005 S

Prep Method: Date Prep: MSD Sample Id: 678848-005 SD

RPD

Limit

20

20

11.24.2020

Parameter

678848-005

Spike **Parent** Result Amount

23.8

2690

MS MS Result %Rec

219

MSD Result 220

MSD Limits %Rec 97

%RPD

0

Units

mg/kg

Analysis Flag Date

11.24.2020 17:57

Chloride

Analytical Method: TPH by SW8015 Mod

3143273

Matrix: Solid

Prep Method: Date Prep:

SW8015P

11.24.2020

MB Sample Id:

Seq Number:

7715953-1-BLK

LCS Sample Id:

7715953-1-BKS

LCSD Sample Id: 7715953-1-BSD

Units

mg/kg

Units

%

%

Parameter Gasoline Range Hydrocarbons (GRO)

Analytical Method: TPH by SW8015 Mod

3143273

MB Result Amount < 50.0 1000

LCS LCS Result %Rec

LCSD

LCSD Limits %RPD **RPD**

35

Analysis

1030 103

LCS

%Rec

107

105

Result

LCS

Flag

%Rec

Limit

Date

Diesel Range Organics (DRO)

< 50.0 MBMB

%Rec

114

1000

Spike

Flag

104 1040

1010 1140

101 114

LCSD

%Rec

114

100

70-135 70-135

LCSD

Flag

35 2

Limits

70-135

70-135

9

11.24.2020 14:06 mg/kg

11.24.2020 14:06

Analysis

Date

11.24.2020 14:06

11.24.2020 14:06

Surrogate

o-Terphenyl

1-Chlorooctane

111

Matrix: Solid

Prep Method:

SW8015P

Flag

Parameter

Seq Number:

MBResult

MB Sample Id: 7715953-1-BLK

Date Prep:

11.24.2020

MS = Matrix Spike

D = MSD/LCSD % Rec

B = Spike Added

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

Units

Analysis Date 11.24.2020 13:46

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

Page 9 of 12

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

Flag

Flag

QC Summary 678952

LT Environmental, Inc.

PLU 303H CTB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3143273 Matrix: Soil Date Prep: 11.24.2020

MS Sample Id: 678851 001 S. MSD Sample Id: 678851 001 S.

MS Sample Id: 678851-001 S MSD Sample Id: 678851-001 SD Parent Sample Id: 678851-001 RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD **MSD Parameter** Result Amount Result %Rec Result %Rec Limit Date

Gasoline Range Hydrocarbons (GRO) <49.8 995 35 11.24.2020 15:06 1150 116 1010 101 70-135 13 mg/kg 11.24.2020 15:06 Diesel Range Organics (DRO) <49.8 995 1090 110 1130 70-135 4 35 mg/kg 113

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 11.24.2020 15:06 1-Chlorooctane 115 70-135 % 111 11.24.2020 15:06 o-Terphenyl 107 104 70-135 %

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3143258Matrix:SolidDate Prep:11.24.2020

 Seq Number:
 3143258
 Matrix:
 Solid
 Date Prep:
 11.24.2020

 MB Sample Id:
 7715911-1-BLK
 LCS Sample Id:
 7715911-1-BKS
 LCSD Sample Id:
 7715911-1-BSD

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 107 11.24.2020 10:40 < 0.00200 0.100 0.107 0.104 70-130 35 Benzene 104 3 mg/kg 11.24.2020 10:40 Toluene < 0.00200 0.100 0.0982 98 0.0974 97 70-130 1 35 mg/kg 11.24.2020 10:40 0.100 0.101 101 0.101 101 71-129 0 35 Ethylbenzene < 0.00200 mg/kg 11.24.2020 10:40 < 0.00400 0.200 0.208 104 0.205 103 70-135 35 m,p-Xylenes 1 mg/kg 11.24.2020 10:40 < 0.00200 0.100 0.102 102 0.101 71-133 35 o-Xylene 101 mg/kg

Limits MB LCS LCS LCSD MB LCSD Units Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 11.24.2020 10:40 1,4-Difluorobenzene 106 102 100 70-130 % 11.24.2020 10:40 70-130 % 4-Bromofluorobenzene 121 110 108

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3143258Matrix: SoilDate Prep:11.24.2020

Parent Sample Id: 678846-001 MS Sample Id: 678846-001 S MSD Sample Id: 678846-001 SD

RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis Flag **Parameter** Limit Date Result Amount Result %Rec %Rec Result 107 11.24.2020 13:34 < 0.00200 0.100 0.107 0.0881 70-130 19 35 Benzene 88 mg/kg 11.24.2020 13:34 70-130 35 Toluene < 0.00200 0.100 0.0960 96 0.0781 78 21 mg/kg Ethylbenzene < 0.00200 0.100 0.0934 93 0.0728 73 71-129 25 35 11.24.2020 13:34 mg/kg 35 11.24.2020 13:34 m,p-Xylenes < 0.00401 0.200 0.192 96 0.144 72 70-135 29 mg/kg < 0.00200 0.100 0.0928 93 0.0711 71-133 26 35 mg/kg 11.24.2020 13:34 o-Xylene 71

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 11.24.2020 13:34 1,4-Difluorobenzene 97 101 70-130 % 11.24.2020 13:34 4-Bromofluorobenzene 105 112 70-130 %

= MSD/LCSD Result

Received by OCD: 12/23/2020 8:06:26 AM

Chain of Custody

Work Order No: 67 8952

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

eived ^ω	-	Relinguished by: (Signature)	of service. Xenco will b		-	:06:2				FSOS-A	Sample Identification	Sample Ide	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.	Ploject Manager.	Deicet Manager:
	1	oy: (Signature)	be liable only for the cost of s	s document and relinquishment	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed					2		icatio		Yes	No sex	1.0/0.	Temp Bla	Travis Casey		HAIOCHEID	PLU 303H C	(432) 704-5178	Midland, TX 79705	3300 North A St. Blug 1, Olint 222	2200 North A St Bld	T Environmental Inc. Permian office	
	The Cont	∧ Received by: (Signature)	amples and shall not assu	ent of samples constitutes	였					11-24-20	Sampled	Date		Co	LIVE	8 Therr	Ses No				13			S I' OHIT FEE	a 1 Unit 222	c. Permian office	Mari SSEV
	A	(Signature)	me any responsibility for any arge of \$5 for each sample s	a valid purchase order from	CRA 13PPM Texas 11 A					09410 0.5	Sampled	Time Depth	Total Containers:	n Factor: -0 · 2	M-007	ete	Wet Ice: Yes No	Due Date:	Rush:	Routine	Turn Around	Email: morrissey@i	City, State ZIP:		Address:	Company Name:	Bill to: (if different)
	11.54.201133	Date/Time	worder signature of the best only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such lost of service. Xenco will be lable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such lost of sample submitted to Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed.	client company to Xenco, its af	Sb As Ba Be Sb As Ba Be			M		× × ×	В	PH (El	PA 8	8015	1)		s					tenv.com todsey@itenv	Carisbad, NM	O-Line Mile		e: XTO Energy	Kyle Littrell
4 (2	Relinquished by: (Signature)	Notice: Signature of 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 service. Xenco will be lable 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 services. Of service, Xenco will be lable 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 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 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 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 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 cost of samples and shall not assume any losses are due to circumstances.	Indeed standard file document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	B Cd Ca Cr Co Cu Fe Cd Cr Co Cu Pb Mn M																ANALYSIS REQUEST		com kiennings@ltenv.col				Bill to: (if different) Kyle Littrell
	-		sees are due to circumstances beyond the cill be enforced unless previously negotiated.	igns standard terms and con	Pb Mg Mn Mo Ni o Ni Se Ag Tl U																DUEST			Reporting:Level II	State of Project:	Program: UST/PST	
		Received by: (Signature)	d.	ditions	K Se Ag SiO2 Na : 1631		1						1	-									☐ ADaPT ☐	□evel III □ST/UST	M	Program: UST/PST PRP Brownfields	Work Order Comments
		Date/Time	-		Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg					Composite	amount.	Sample Comments	2000	TAT starts the day received by the lab, if received by 4:30pm								Work Order Notes	Other:	LIRP Livel IV		s _RC _uperfund _	ients

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 11.24.2020 11.37.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 678952

Analyst:

Temperature Measuring device used: T_NM_007

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

* Must be	completed for	after-hours	delivery of	samples	prior to	placing in	the i	refrigerato	16

Checklist completed by:	Cloe Clifton	Date: <u>11.24.2020</u>	
Checklist reviewed by:	Jessica Vramer	Date: 11.25.2020	

Jessica Kramer

PH Device/Lot#:

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 12994

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	12994	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
ceads	None