<u>District I</u> 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 1220 S. St. Francis Dr., Santa Fe, NM 87505

Responsible Party

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	NRM2012229921
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 5380

Responsible	Party XTC) Energy		OGRID	OGRID 5380				
Contact Nam	ne Kyle Lit	trell		Contact Te	Contact Telephone 432-221-7331				
Contact emai	il Kyle_Lit	ttrell@xtoenergy.c	om	Incident #	Incident # (assigned by OCD)				
Contact mail	ing address	522 W. Mermod	, Carlsbad, NM 88	3220					
			Location	of Release So	ource				
Latitude 32.2	24287			Longitude	-103.88607				
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)				
Site Name PI	LU 320 Batte	erv		Site Type I					
Date Release				API# (if app	•				
Unit Letter	Section	Township	Range	Cour	nty				
О	04	24S	30E	Edd	у				
C C	🗖 α		311 D.D.3	1	DIM	,			
Surface Owner	r: State	× Federal ☐ Tr	ibai 🔛 Private (1	vame:	BLM)			
			Nature and	l Volume of l	Release				
	Mataria	l(s) Palansad (Salaat al	I that apply and attach	coloulations or specific	justification for the volumes provided b	odow)			
× Crude Oil		Volume Release		calculations of specific	Volume Recovered (bbls) .90				
× Produced	Water	Volume Release	d (bbls) 15.53		Volume Recovered (bbls) 14.10				
		Is the concentrat	ion of total dissolv	ved solids (TDS)	-				
			water >10,000 mg	/1?	· /				
Condensa		Volume Release			Volume Recovered (bbls)				
☐ Natural G		Volume Release			Volume Recovered (Mcf)				
Other (de	scribe)	Volume/Weight	Released (provide	e units)	S) Volume/Weight Recovered (provide units)				
Cause of Rel	ease Fluids v	were released from	a broken sight gla	ass on a two phase	separator. A third-party contrac	ctor has been retained for			
	remedia	ation activities.							

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Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the respons	ible party consider this a major release?
If YES, was immediate no	otice given to the OCD? By whom? To who	m? When and by what means (phone, email, etc)?
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
 ★ The impacted area ha ★ Released materials ha ★ All free liquids and re 	ease has been stopped. Is been secured to protect human health and to the been contained via the use of berms or discoverable materials have been removed and disabove have not been undertaken, explain we	kes, absorbent pads, or other containment devices. managed appropriately.
has begun, please attach	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation forts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notifi- ment. The acceptance of a C-141 report by the OC ate and remediate contamination that pose a threa	est of my knowledge and understand that pursuant to OCD rules and cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In sponsibility for compliance with any other federal, state, or local laws
Printed Name: Kyle Littr	ell	Title: SH&E Supervisor
Signature:	SHILL	Date: 4-29-20
email: Kyle_Littre4@xtc	penergy.com	Telephone: 432-221-7331
OCD Only		
Received by: Ramona	Marcus	Date: 5/1/2020

Location:	PLU 320 BTTY		
Spill Date:	4/22/2020		
	Area 1		
Approximate A	rea =	661.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.00	inches
Average Porosi	:y Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil		0.94	bbls
Total Produced		14.65	
	Area 2		
Approximate A		1266.00	sq. ft.
	tion (or depth) of spill =		inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil		0.03	bbls
Total Produced			bbls
- Total I Todacca	, vace	1 0.00	10010
	Area 3		
Approximate A	rea =	1353.00	sq. ft.
	tion (or depth) of spill =		inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil		0.01	bbls
Total Produced		_	bbls
			!
	Area 4		
Approximate A	rea =	3982.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.13	inches
			1
Average Porosi	cy Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil		0.01	bbls
Total Produced			bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil	=	0.99	bbls
Total Produced	Water =	15.53	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oil		0.90	bbls
Total Produced	Water =	14.10	

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■ Laboratory data including chain of custody

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data	ls.
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	

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

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

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation point □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.1 □ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
■ Extents of contamination must be fully delineated.	
☑ Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Kyle Littrell	SH&E SupervisorTitle:
Printed Name: Kyle Littrell Signature:	Date: 7/20/2020
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
Received by:	Date:
Approved	Approval Denied Deferral Approved
Signature:	Date:



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

July 17, 2020

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

RE: Deferral Request

XTO Energy, Inc.

Poker Lake Unit 320 Battery

Incident Number NRM2012229921

Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, soil sampling, and remediation activities at the Poker Lake Unit (PLU) 320 Battery (Site) in Unit O, Section 4, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and remediation activities was to address impacts to soil resulting from a release of produced water and crude oil at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Deferral Request, describing remediation that has occurred and requesting deferral of final remediation for Incident Number NRM2012229921 until the Site is reconstructed, and/or the well pad is abandoned.

RELEASE BACKGROUND

On April 22, 2020, a sight glass on a two-phase separator failed, resulting in the release of approximately 0.99 barrels (bbls) of crude oil and 15.53 bbls of produced water. The release occurred in the process equipment area of the well pad and was contained by an earthen containment berm. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 0.90 bbls of crude oil and 14.10 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form (Form C-141) on April 29, 2020 and was subsequently assigned Incident Number NRM2012229921.

SITE CHARACTERIZATION

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



Bratcher, M. Page 2

well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-02095, located approximately 1.15 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 440 feet bgs and a total depth of 554 feet bgs. There are 10 groundwater wells within a 2.3-mile radius that indicate regional depth to groundwater is greater than 100 feet bgs. United States Geologic Survey (USGS) well 321321103544101 located 2.3 miles southwest of the Site, was most recently measured in January 1998 and had a recorded depth to groundwater of 168 feet bgs. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash, located approximately 1.03 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). The 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 May 13, 2020, LTE evaluated the release extent based on information provided on the Form C-141 and visual observations. The release occurred within the earthen berm surrounding active process equipment in the southeast area of the caliche well pad. LTE personnel collected four preliminary soil samples (SS01 through SS04) within the release extent from a depth of 0.5 feet bgs. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2.

Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The



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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 TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria in preliminary soil samples SS01 through SS04. Based on visual observations and laboratory analytical results, delineation and excavation activities were conducted.

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES

The following is a summary of the excavation and delineation activities conducted at the Site.

Excavation Activities

Between May 28, 2020 and June 15, 2020, LTE oversaw excavation of impacted soil. Excavation activities were performed using a track-mounted backhoe, hydro-vacuum, and transport vehicle. Due to the presence of active production equipment and pipelines within the release area, four separate excavations were completed. Impacted soil was excavated to depths ranging from 0.5 feet to 1.5 feet bgs. Photographic documentation was conducted during excavation activities and a photographic log is included in Attachment 2.

Following removal of impacted soil to the extent possible, LTE collected 5-point composite soil samples on a 200 square foot frequency from the floor of the excavations. 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. Floor soil samples FS01 through FS16 were collected within the release footprint. The composite floor samples were collected at depths ranging from 0.5 feet to 1.5 feet 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 and submitted for analysis at Xenco in Carlsbad, New Mexico.

Floor samples FS10, FS11, and FS13 collected on June 9-10, 2020, exceeded the Closure Criteria for TPH and/or TPH-GRO/TPH-DRO. On June 15, 2020, LTE returned the site to collect additional floor samples from the FS10 and FS13 soil sample locations. No subsequent soil sample was collected from the FS11 sample location; visually impacted soil was observed around and beneath the active equipment adjacent to sample FS11; however, this area could not be accessed for additional excavation. The final excavation extents and final excavation soil sample locations are presented on Figure 3.



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The combined excavation extents measured approximately 2,470 square feet in area. A total of approximately 90 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

Delineation Activities

On June 15, 2020, one borehole (BH01) was advanced via stainless steel hand-auger to a depth of 4 feet bgs to vertically delineate the extent of impacted soil remaining in place around floor sample FS11. Two discrete soil samples (BH01 and BH01A) were collected from borehole BH01 at depths of 1.5 feet and 4 feet bgs, respectively. The delineation soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach© chloride QuanTab© test strips, respectively. Field screening results and observations for the borehole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil samples and location borehole BH01 are presented on Figure 4. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Impacted soil was excavated to the maximum extent possible. Laboratory analytical results indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in excavation floor soil samples FS01 through FS10 and FS12 through FS16. Laboratory analytical results indicated TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria in floor sample FS11.

Borehole BH01 was advanced to vertically delineate the impacted soil left in place around floor sample FS11. Laboratory analytical results for delineation soil samples BH01 and BH01A indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, a chloride concentration of 124 mg/kg was reported in delineation soil sample BH01A collected at 4 feet bgs, which provided vertical delineation of chloride to below 600 mg/kg.

Although hydro-excavation and hand shoveling was conducted, further exaction of impacted soil near FS11 was limited by the presence of active production equipment and pipelines. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 4.



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DEFERRAL REQUEST

A total of approximately 90 cubic yards of impacted soil were excavated from the Site; however, TPH-impacted soil immediately surrounding the infrastructure near floor sample FS11 was left in place for compliance with the XTO safety policy regarding earth-moving activities within 2 feet of active production equipment and/or pipelines and could not be accessed due to space limitations.

Residual impacted soil beneath or adjacent to the active production equipment is delineated laterally by excavation soil samples FS08 to the north, FS05 and FS06 to the west, FS01, FS04, and FS12 to the south, FS09, FS15, and FS16 to the east, and vertically by borehole samples BH01 and BH01A that were compliant with the Closure Criteria. Excavation soil samples FS01 through FS10 immediately surrounding the point of release, and excavation soil samples FS12 through FS16 located in accessible areas, confirm no impacted soil remains in other areas of the release footprint.

An estimated 2.9 cubic yards of residual impacted soil remains in-place assuming a maximum depth of 1.5 feet bgs in the area immediately surrounding the infrastructure around FS11. The requested deferral area and active production equipment is shown on Figure 4. Due to the presence of equipment and lines, attempts at hand shoveling and hydro-excavation in this limited area were unsuccessful. Therefore, XTO requests permission to backfill the onsite excavations and complete remediation of the remaining impacted soil during any future major construction or final abandonment, whichever occurs first. LTE and XTO do not believe deferment will result in an imminent risk to human health, the environment, or groundwater.

XTO requests deferral of final remediation for Incident Number NRM2012229921. Upon approval of this Deferral Request, XTO will backfill the on-pad excavations with material purchased locally and recontour the Site to match pre-existing Site conditions.

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

Sincerely,

LT ENVIRONMENTAL, INC.

William Mather

Staff Environmental Scientist

Ashley L. Ager, P.G.

Ushley L. ager

Senior Geologist



Bratcher, M. Page 6

cc: Kyle Littrell, XTO

United States Bureau of Land Management – New Mexico

Victoria Venegas, NMOCD Robert Hamlet, NMOCD Cristina Eads, NMOCD

Attachments:

Figure 1 Site Location Map
Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations

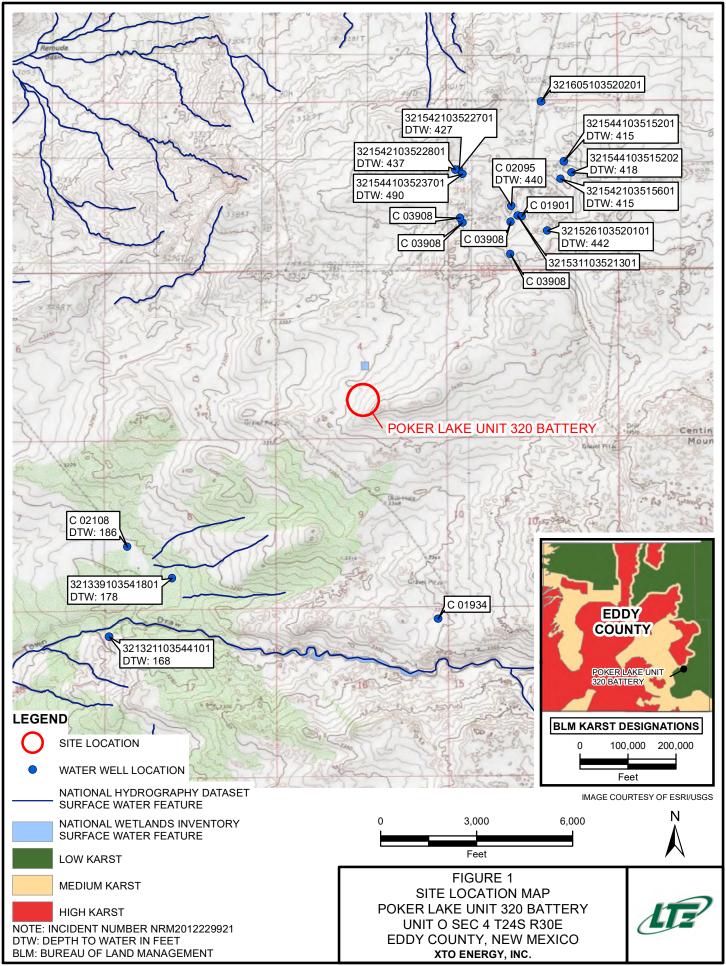
Figure 4 Deferral Area

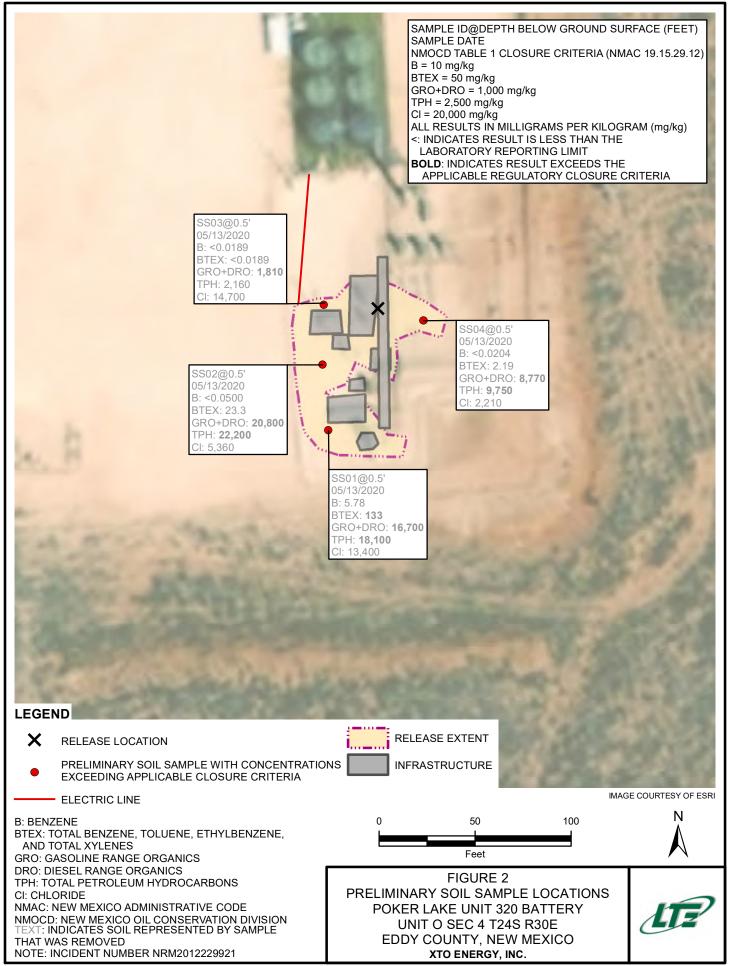
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records

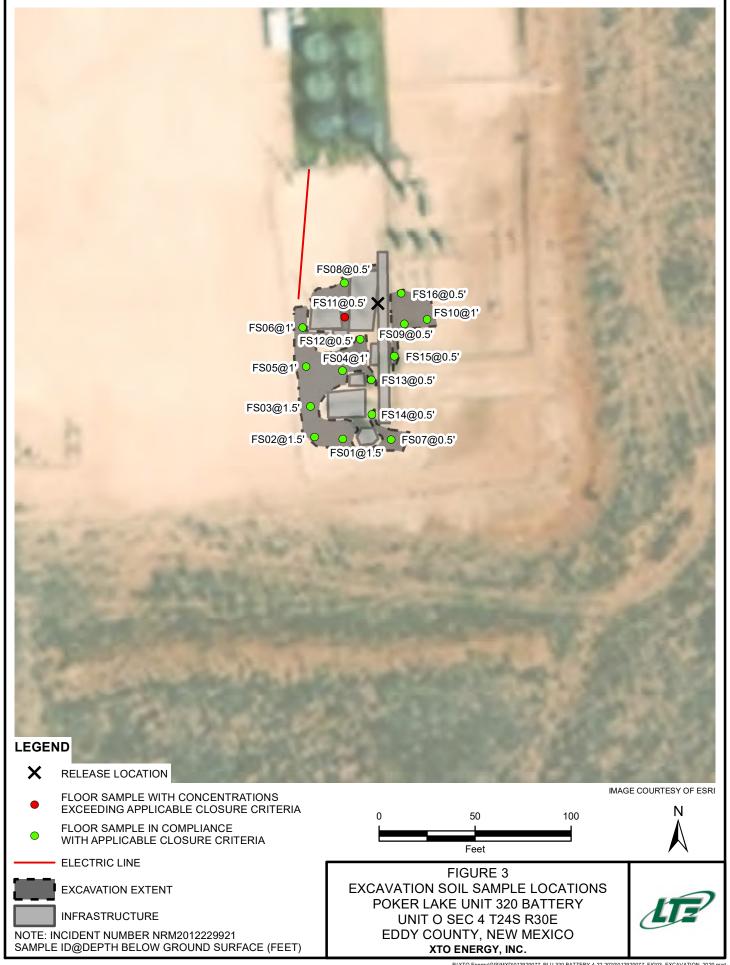
Attachment 2 Photographic Log

Attachment 3 Lithologic /Soil Sampling Log Attachment 4 Laboratory Analytical Results









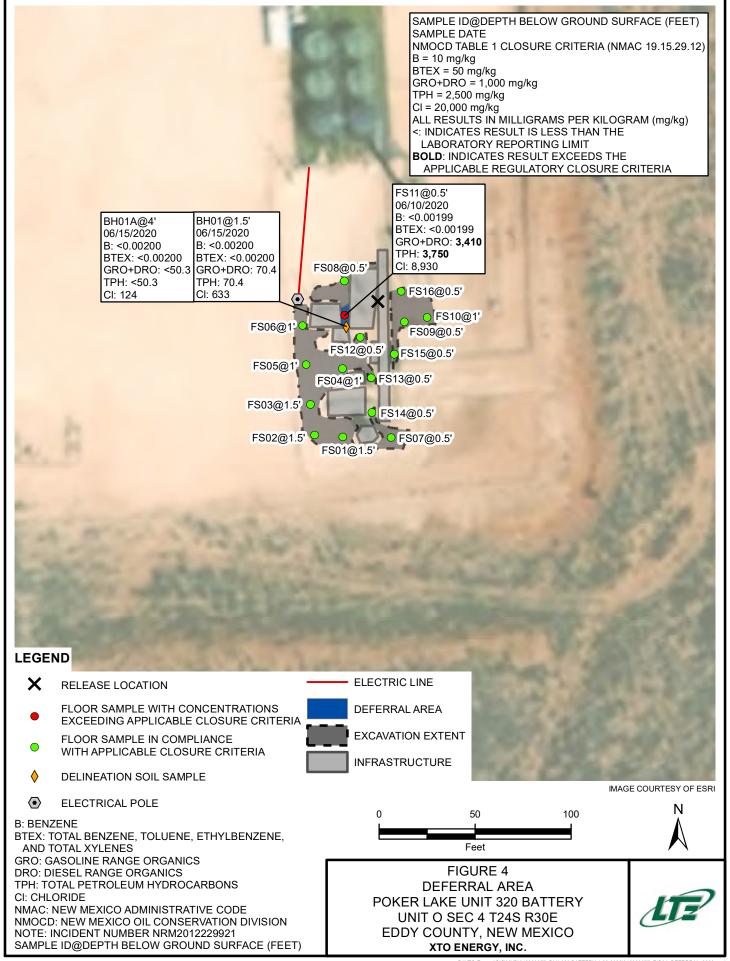




TABLE 1 SOIL ANALYTICAL RESULTS

POKER LAKE UNIT 320 BATTERY INCIDENT NUMBER NRM2012229921 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table	e 1 Closure Crit	eria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
SS01	0.5	05/13/2020	5.78	38.7	13.4	74.8	133	1,560	15,100	1,450	16,700	18,100	13,400
SS02	0.5	05/13/2020	< 0.0500	1.30	3.49	18.5	23.3	3,570	17,200	1,430	20,800	22,200	5,360
SS03	0.5	05/13/2020	< 0.0189	< 0.0189	< 0.0189	< 0.0189	< 0.0189	<74.9	1,810	350	1,810	2,160	14,700
SS04	0.5	05/13/2020	< 0.0204	< 0.0204	0.350	1.84	2.19	319	8,450	976	8,770	9,750	2,210
FS01	1.5	06/09/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	121	<50.2	121	121	3,130
FS02	1.5	06/09/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	109	<50.3	109	109	3,640
FS03	1.5	06/10/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	117	<49.8	117	117	2,980
FS04	1	06/09/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	797	98.8	797	896	13,200
FS05	1	06/09/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	97.7	<49.9	97.7	97.7	8,290
FS06	1	06/09/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	411	54.9	411	466	8,940
FS07	0.5	06/09/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	358	54.8	358	413	2,650
FS08	0.5	06/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	75.4	<50.1	75.4	75.4	3,500
FS09	0.5	06/09/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	80.6	<50.2	80.6	80.6	331
FS10	1	06/09/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	1,140	119	1,140	1,260	363
FS10	1	06/15/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	928	129	928	1,060	1,020
FS11	0.5	06/10/2020	<0.00199	<0.00199	0.0181	0.105	0.123	<251	3,410	342	3,410	3,750	8,930
FS12	0.5	06/10/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	410	95.1	410	505	5,960
FS13	0.5	06/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	1,150	244	1,150	1,390	7,270
FS13	0.5	06/15/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	271	75.6	271	347	715
FS14	0.5	06/10/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	844	213	844	1,060	6,060
FS15	0.5	06/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	205	<50.2	205	205	356
BH01	1.5	06/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	70.4	<50.1	70.4	70.4	633
BH01A	4	06/15/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	124



TABLE 1 SOIL ANALYTICAL RESULTS

POKER LAKE UNIT 320 BATTERY INCIDENT NUMBER NRM2012229921 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000	
FS16	0.5	06/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	266	<50.0	266	266	250

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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

TEXT -indicates sample was removed during excavation







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

v v

C 02095

12.75

DEPT. OF ENGERY

2 3 34 23S 30E

606337 3569759*

9

Driller License:

Driller Company:

Driller Name:
Drill Start Date:

Drill Finish Date:

08/31/1960

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 100 GPM

Casing Size:

Depth Well:

554 feet

Depth Water:

440 feet

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7/16/20 7:52 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



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 Q

Q64 Q16 Q4 Sec Tws Rng

X

C 02108

3 08 24S 30E

602702 3566487*

•

Driller License:

Driller Company:

Driller Name:

UNKNOWN

Drill Start Date:
Log File Date:

Drill Finish Date:

12/31/1963

Plug Date:

PCW Rcv Date:

Source:

Pipe Discharge Size:

Source:

Estimated Yield: 16 GPM

Pump Type: Casing Size:

7.00

Depth Well:

200 feet

Depth Water:

186 feet

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POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



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site_no list =

• 321321103544101

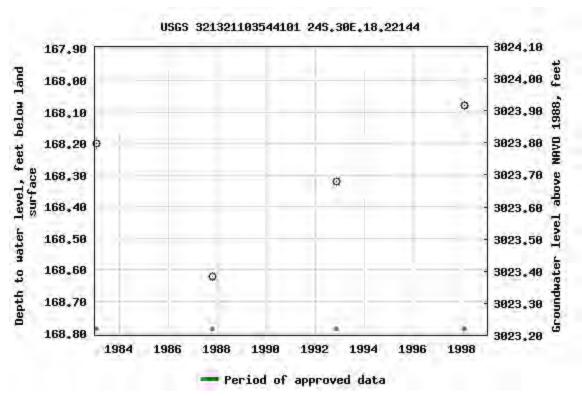
Minimum number of levels = 1

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USGS 321321103544101 24S.30E.18.22144

Available data for this site	Groundwater:	Field measurements	~	GO
Eddy County, New Mexico				
Hydrologic Unit Code 13060	011			
Latitude 32°13'21", Longitu	ide 103°54	4'41" NAD27		
Land-surface elevation 3,192	2 feet abov	ve NAVD88		
•	Outpu	ıt formats		

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0.68 0.63 nadww01





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site_no list =

• 321339103541801

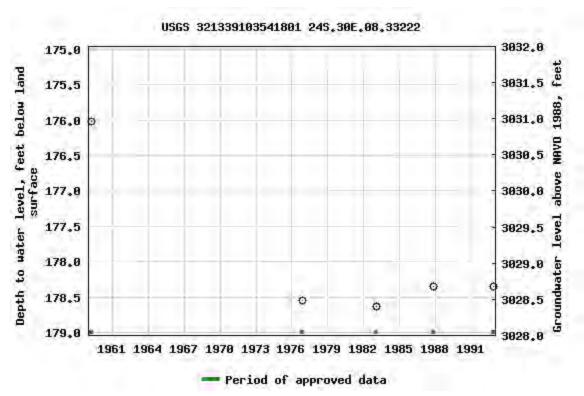
Minimum number of levels = 1

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USGS 321339103541801 24S.30E.08.33222

Available data for this site	Groundwater: Field measurements ∨ GO
Eddy County, New Mexico	
Hydrologic Unit Code 13060	0011
Latitude 32°13'39", Longitu	ude 103°54'18" NAD27
Land-surface elevation 3,20	17 feet above NAVD88
The depth of the well is 192	? feet below land surface.
This well is completed in the	e Rustler Formation (312RSLR) local aquifer
·	Output formats

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0.6 0.53 nadww01





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site_no list =

• 321526103520101

Minimum number of levels = 1

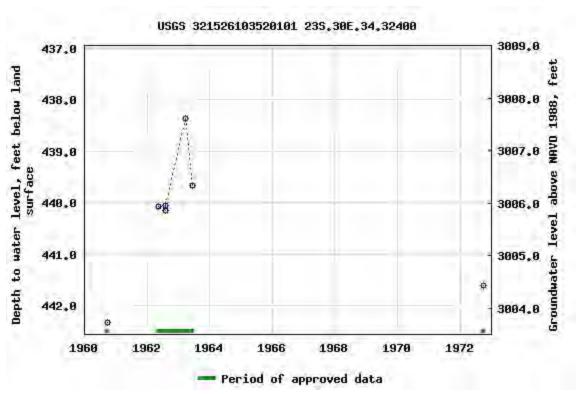
Save file of selected sites to local disk for future upload

USGS 321526103520101 23S.30E.34.32400

Available data for this site	Groundwater: Field measurements	~	GO	
Eddy County, New Mexico				
Hydrologic Unit Code 13060	0011			
Latitude 32°15'26", Longit	ude 103°52'01" NAD27			
Land-surface elevation 3,44	16 feet above NAVD88			
The depth of the well is 567	7 feet below land surface.			
This well is completed in th	e Rustler Formation (312RSL	R) Ic	ocal a	aquifer.

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site_no list =

• 321542103515601

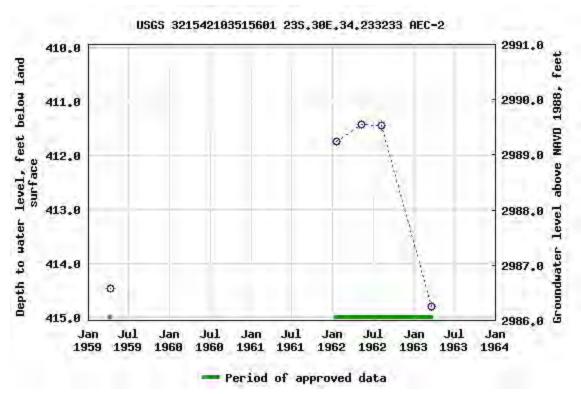
Minimum number of levels = 1

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USGS 321542103515601 23S.30E.34.233233 AEC-2

Available data for this site	Groundwater:	Field measurements	s ×	GO	
Eddy County, New Mexico					
Hydrologic Unit Code 13060	0011				
Latitude 32°15'42", Longit	ude 103°51	L'56" NAD27			
Land-surface elevation 3,40)1 feet abo	ve NAVD88			
This well is completed in the	e Rustler Fo	ormation (312R	SLR) I	ocal	aquifer.
·	Outpu	ıt formats	-		-

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site_no list =

• 321542103522701

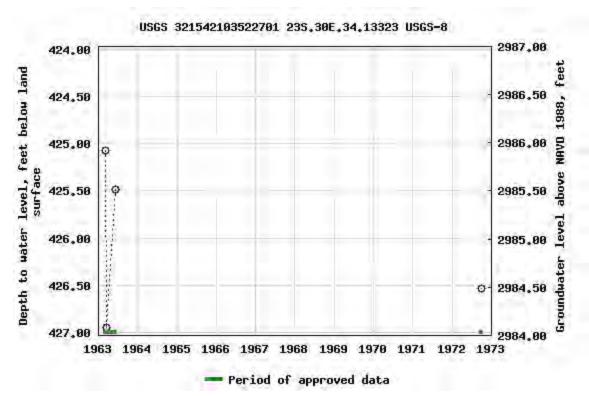
Minimum number of levels = 1

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USGS 321542103522701 23S.30E.34.13323 USGS-8

Available data for this site	Groundwater: Field measurements \vee GO	
Eddy County, New Mexico		
Hydrologic Unit Code 13060	0011	
Latitude 32°15'45.4", Long	gitude 103°52'34.64" NAD83	
Land-surface elevation 3,41	11 feet above NAVD88	
This well is completed in the	ne Rustler Formation (312RSLR) local aqu	ıifer.
•	Output formats	

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<u>Tab-separated data</u>	
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17.96 0.61 nadww01





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site_no list =

• 321542103522801

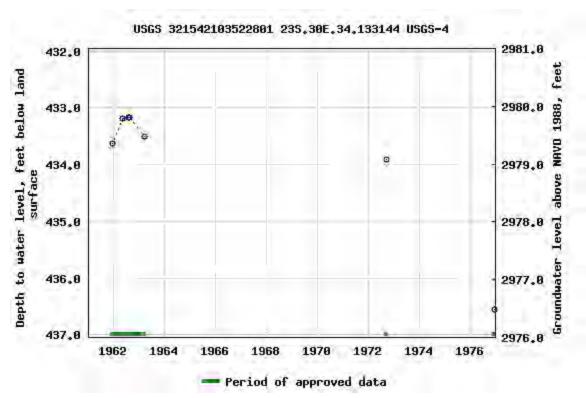
Minimum number of levels = 1

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USGS 321542103522801 23S.30E.34.133144 USGS-4

Available data for this site	Groundwater: Field measurements ~	GO
Eddy County, New Mexico		
Hydrologic Unit Code 13060	0011	
Latitude 32°15'45.42", Lor	ngitude 103°52'36.09" NAD83	
Land-surface elevation 3,43	13 feet above NAVD88	
The depth of the well is 518	3 feet below land surface.	
This well is completed in th	e Rustler Formation (312RSLR) I	ocal aquifer.
•	Output formats	- -

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site_no list =

• 321544103515201

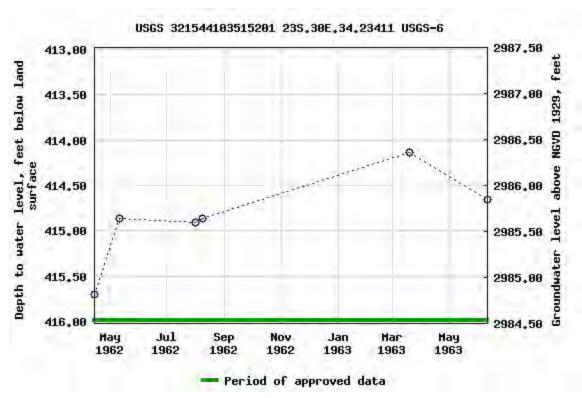
Minimum number of levels = 1

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USGS 321544103515201 23S.30E.34.23411 USGS-6

Available data for this site	Groundwater: Field measurements ∨ GO
Eddy County, New Mexico	
Hydrologic Unit Code 13060	0011
Latitude 32°15'47.9", Long	gitude 103°51'56.6" NAD83
Land-surface elevation 3,40	00.50 feet above NGVD29
The depth of the well is 567	7 feet below land surface.
This well is completed in th	e Rustler Formation (312RSLR) local aquifer.
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site_no list =

• 321544103515202

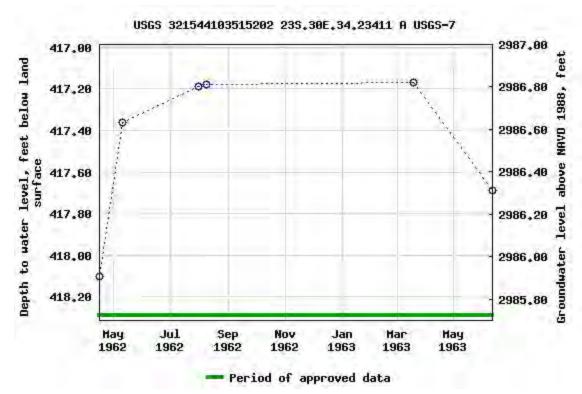
Minimum number of levels = 1

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USGS 321544103515202 23S.30E.34.23411 A USGS-7

Available data for this site	Groundwater:	Field measurements	~	GO	
Eddy County, New Mexico					
Hydrologic Unit Code 13060	0011				
Latitude 32°15'44", Longitu	ude 103°51	'52" NAD27			
Land-surface elevation 3,40	4 feet abov	e NAVD88			
The depth of the well is 563	feet below	land surface.			
This well is completed in the	e Rustler Fo	rmation (312RS	SLR) l	ocal	aquifer.
·	Outpu	t formats	-		-

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14.8 0.62 nadww01





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• 321544103523701

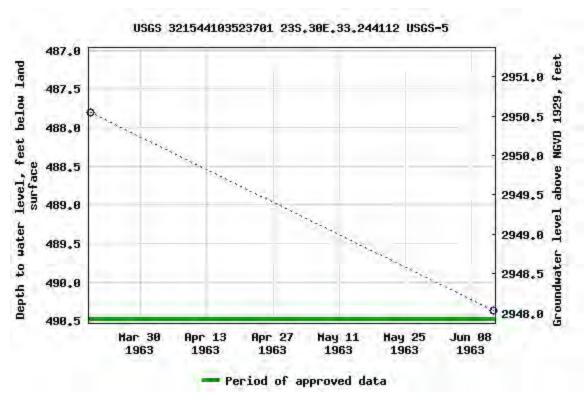
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321544103523701 23S.30E.33.244112 USGS-5

Available data for this site	Groundwater:	Field measurements	~	GO	
Eddy County, New Mexico					
Hydrologic Unit Code 13060	0011				
Latitude 32°15'44.1", Long	jitude 103°	52'33.5" NAD83			
Land-surface elevation 3,43	38.37 feet <i>a</i>	bove NGVD29			
The depth of the well is 696	feet below	<i>i</i> land surface.			
This well is completed in th	e Rustler Fo	ormation (312RS	SLR) I	ocal	aquifer.
·	Outpu	it formats	-		-

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0.7 0.59 nadww01





PHOTOGRAPHIC LOG



Photograph 1: View of release around equipment facing northeast.



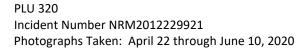
Photograph 3: View of excavation facing east.



Photograph 2: View of staining inside earthen berm facing northeast.



Photograph 4: View of excavation facing south east.







PHOTOGRAPHIC LOG



Photograph 5: View of the northwest excavation facing west.



Photograph 7: View of hand shoveling/hydrovac around lines and equipment in the north portion of the release extent facing northeast.



Photograph 6: View of hand shovel and hydrovac excavation around lines in the northwest portion of release extent facing north.



Photograph 8: View of hand shoveling/hydrovac excavation around lines and equipment in the southern portion of the release extent facing south.





LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220

 $Compliance \cdot \textit{Engineering} \cdot \textit{Remediation}$

BH or PH Name:	Date:
BH01	6/15/2020

Site Name: PLU 320

RP or Incident Number: NRM2012229921

LTE Job Number: 12920077

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:
Field Screening:
Chloride, PID

Logged By: Will Mather
Method: Hand Auger

Method: Hand Auger

Total Depth:
4'
4'

'ammanta.	
omments:	

Comm	ients:							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D D M M	1,286 1,286 934 934 780	5.4 28.1 4.5 2.6 3.0	N N N N	BH01	- - - - -	0 0.5 1 1.5 2	CCHE CCHE SW SW	Caliche, medium-large grain sand, poorly graded, tan, dry, no stain, odor, SAND, medium grain, well graded, few caliche gravel, moist, no stain, odo
M	294	0.6	N	BH01A		- 4	SW	SAND, medium grain, well graded, few caliche gravel, moist, no stain, no odor



Certificate of Analysis Summary 664463

LT Environmental, Inc., Arvada, CO

Project Name: PLU 320

Project Id: Contact: 012920077

Dan Moir

Project Location:

Eddy]

Date Received in Lab: Mon 06.15.2020 14:05

Report Date: 06.19.2020 12:29

Project Manager: Jessica Kramer

	Lab Id:	664463-0	001	664463-0	002	664463-0	003	664463-0	004		
Analysis Requested	Field Id:	FS10		FS13		BH01		BH01A			
Analysis Requested	Depth:	1- ft		0.5- ft		1.5- ft		4- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL	,		
	Sampled:	06.15.2020	09:18	06.15.2020	09:22	06.15.2020	09:50	06.15.2020	10:48		
BTEX by EPA 8021B	Extracted:	06.15.2020	14:47	06.15.2020	14:47	06.15.2020	14:47	06.15.2020	14:47		
	Analyzed:	06.15.2020	17:14	06.15.2020	19:37	06.15.2020	19:57	06.15.2020	20:18		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200		
Toluene		< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200		
Ethylbenzene		< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200		
m,p-Xylenes		< 0.00402	0.00402	< 0.00402	0.00402	< 0.00399	0.00399	< 0.00400	0.00400		
o-Xylene		< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200		
Total Xylenes		< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200		
Total BTEX		< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	06.15.2020	14:50	06.15.2020	14:50	06.15.2020	14:50	06.15.2020	14:50		
	Analyzed:	06.15.2020	15:19	06.15.2020	15:26	06.15.2020	15:33	06.15.2020	15:40		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		1020	50.3	715	10.0	633	50.1	124	9.92		
TPH by SW8015 Mod	Extracted:	06.15.2020	14:15	06.15.2020	14:15	06.15.2020	14:15	06.15.2020	14:15		
	Analyzed:	06.15.2020	17:22	06.15.2020	17:42	06.15.2020	18:03	06.15.2020	18:23		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.1	50.1	< 50.2	50.2	< 50.1	50.1	<50.3	50.3		
Diesel Range Organics (DRO)		928	50.1	271	50.2	70.4	50.1	< 50.3	50.3		
Motor Oil Range Hydrocarbons (MRO)		129	50.1	75.6	50.2	< 50.1	50.1	< 50.3	50.3		
Total GRO-DRO		928	50.1	271	50.2	70.4	50.1	< 50.3	50.3		
Total TPH		1060	50.1	347	50.2	70.4	50.1	<50.3	50.3		

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

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

Jessica Kramer
Project Manager



Analytical Report 664463

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 320 012920077 06.19.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.19.2020

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

Reference: XENCO Report No(s): 664463

PLU 320

Project Address: Eddy]

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 664463. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 664463 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Veramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 664463

LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS10	S	06.15.2020 09:18	1 ft	664463-001
FS13	S	06.15.2020 09:22	0.5 ft	664463-002
BH01	S	06.15.2020 09:50	1.5 ft	664463-003
BH01A	S	06.15.2020 10:48	4 ft	664463-004

Page 52 of 130

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU 320

Project ID: Report Date: 06.19.2020 012920077 Work Order Number(s): 664463 Date Received: 06.15.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS10**

Matrix:

Soil

Date Received:06.15.2020 14:05

Lab Sample Id: 664463-001

Date Collected: 06.15.2020 09:18

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech:

MAB

Analyst:

MAB

Date Prep:

06.15.2020 14:50

Basis:

Wet Weight

Seq Number: 3129015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1020	50.3	mg/kg	06.15.2020 15:19		5

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: DTH

Seq Number: 3129093

Date Prep:

06.15.2020 14:15

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	06.15.2020 17:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	928	50.1		mg/kg	06.15.2020 17:22		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	129	50.1		mg/kg	06.15.2020 17:22		1
Total GRO-DRO	PHC628	928	50.1		mg/kg	06.15.2020 17:22		1
Total TPH	PHC635	1060	50.1		mg/kg	06.15.2020 17:22		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	88	%	70-135	06.15.2020 17:22
o-Terphenyl	84-15-1	82	%	70-135	06.15.2020 17:22



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS10**

Matrix:

Date Received:06.15.2020 14:05

Lab Sample Id: 664463-001

Soil Date Collected: 06.15.2020 09:18

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

Date Prep:

% Moisture:

Basis:

06.15.2020 14:47

Wet Weight

Analyst: MAB Seq Number: 3129096

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.15.2020 17:14	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.15.2020 17:14	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.15.2020 17:14	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.15.2020 17:14	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.15.2020 17:14	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.15.2020 17:14	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.15.2020 17:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	06.15.2020 17:14		
1,4-Difluorobenzene	;	540-36-3	109	%	70-130	06.15.2020 17:14		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS13**

Matrix:

Date Received:06.15.2020 14:05

Lab Sample Id: 664463-002

Soil Date Collected: 06.15.2020 09:22

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

Analyst:

MAB

Date Prep:

06.15.2020 14:50

% Moisture: Basis:

Wet Weight

Seq Number: 3129015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	715	10.0	mg/kg	06.15.2020 15:26		1

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: DTH

o-Terphenyl

Date Prep:

06.15.2020 14:15

Prep Method: SW8015P

06.15.2020 17:42

% Moisture:

70-135

Basis: Wet Weight

Seq Number: 3129093

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	06.15.2020 17:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	271	50.2		mg/kg	06.15.2020 17:42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	75.6	50.2		mg/kg	06.15.2020 17:42		1
Total GRO-DRO	PHC628	271	50.2		mg/kg	06.15.2020 17:42		1
Total TPH	PHC635	347	50.2		mg/kg	06.15.2020 17:42		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-135	06.15.2020 17:42		

84-15-1

73



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS13**

Matrix:

Date Received:06.15.2020 14:05

Lab Sample Id: 664463-002

Soil Date Collected: 06.15.2020 09:22

Sample Depth: 0.5 ft

06.15.2020 19:37

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture:

Analyst:

MAB

Date Prep: 06.15.2020 14:47 Basis:

70-130

Wet Weight

Seq Number: 3129096

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.15.2020 19:37	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.15.2020 19:37	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.15.2020 19:37	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.15.2020 19:37	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.15.2020 19:37	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.15.2020 19:37	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.15.2020 19:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	06.15.2020 19:37		

96

460-00-4



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **BH01**

Matrix:

Date Received:06.15.2020 14:05

Lab Sample Id: 664463-003

Soil Date Collected: 06.15.2020 09:50

Sample Depth: 1.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

% Moisture:

Tech: Analyst:

MAB

Date Prep:

06.15.2020 14:50

Basis:

Wet Weight

Seq Number: 3129015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	633	50.1	mg/kg	06.15.2020 15:33		5

Analytical Method: TPH by SW8015 Mod

MAB

Tech:

o-Terphenyl

Analyst:

DTH

Date Prep:

84-15-1

06.15.2020 14:15

Prep Method: SW8015P

06.15.2020 18:03

% Moisture:

Basis:

70-135

Wet Weight

Seq Number: 3129093

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	06.15.2020 18:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	70.4	50.1		mg/kg	06.15.2020 18:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	06.15.2020 18:03	U	1
Total GRO-DRO	PHC628	70.4	50.1		mg/kg	06.15.2020 18:03		1
Total TPH	PHC635	70.4	50.1		mg/kg	06.15.2020 18:03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	83	%	70-135	06 15 2020 18:03		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: BH01

Lab Sample Id: 664463-003

I01

Matrix: Soil

Date Received:06.15.2020 14:05

Date Collected: 06.15.2020 09:50

Sample Depth: 1.5 ft

Prep Method: SW5035A

06.15.2020 19:57

Analytical Method: BTEX by EPA 8021B

Tech:

MAB

Analyst: MAB

Date Prep:

540-36-3

06.15.2020 14:47

% Moisture: Basis:

70-130

Wet Weight

Seq Number: 3129096

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.15.2020 19:57	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.15.2020 19:57	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.15.2020 19:57	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.15.2020 19:57	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.15.2020 19:57	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.15.2020 19:57	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.15.2020 19:57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	70-130	06.15.2020 19:57		

110



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: BH01A

Matrix: Soil Date Received:06.15.2020 14:05

Lab Sample Id: 664463-004

Date Collected: 06.15.2020 10:48

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst:

Parameter

Chloride

Analyst:

MAB

MAB

% Moisture:

Units

mg/kg

Wet Weight

Seq Number: 3129015

Date Prep: 06.15.2020 14:50

RL

9.92

Basis:

Flag

Dil

1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Analysis Date

06.15.2020 15:40

% Moisture:

MABTech:

DTH

Date Prep:

Result

124

Cas Number

16887-00-6

06.15.2020 14:15

Basis:

Wet Weight

Seq Number: 3129093

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	06.15.2020 18:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	06.15.2020 18:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	06.15.2020 18:23	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	06.15.2020 18:23	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	06.15.2020 18:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	82	%	70-135	06.15.2020 18:23
o-Terphenyl	84-15-1	77	%	70-135	06.15.2020 18:23



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: BH01A Matrix:

Date Received:06.15.2020 14:05

Lab Sample Id: 664463-004

Soil Date Collected: 06.15.2020 10:48

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture: Basis:

Wet Weight

Analyst:

MAB

Date Prep: 06.15.2020 14:47

Seq Number: 3129096

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	06.15.2020 20:18	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	06.15.2020 20:18	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	06.15.2020 20:18	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	mg/kg	06.15.2020 20:18	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	06.15.2020 20:18	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	06.15.2020 20:18	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	06.15.2020 20:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	06.15.2020 20:18	
1,4-Difluorobenzene	540-36-3	111	%	70-130	06.15.2020 20:18	



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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting 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

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

Matrix Spike

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS

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

Flag

Flag

Flag



Chloride

QC Summary 664463

LT Environmental, Inc.

PLU 320 E300P Analytical Method: Chloride by EPA 300 Prep Method: Seq Number: 3129015 Matrix: Solid Date Prep: 06.15.2020 LCS Sample Id: 7705472-1-BKS LCSD Sample Id: 7705472-1-BSD MB Sample Id: 7705472-1-BLK LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 98 254 102 90-110 20 06.15.2020 14:51 246 3 mg/kg E300P Analytical Method: Chloride by EPA 300 Prep Method: Seq Number: 3129015 Matrix: Soil Date Prep: 06.15.2020 MS Sample Id: 664446-001 S MSD Sample Id: 664446-001 SD Parent Sample Id: 664446-001 Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Result Amount Result %Rec %Rec Limit Date Result 20 06.15.2020 15:12 374 374

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: Seq Number: 3129093 Matrix: Solid Date Prep: 06.15.2020 LCS Sample Id: 7705525-1-BKS LCSD Sample Id: 7705525-1-BSD MB Sample Id: 7705525-1-BLK Spike %RPD **RPD** MB LCS LCS Units LCSD LCSD Limits Analysis Parameter Result %Rec Limit Date Result Amount Result %Rec

106

106

90-110

0

mg/kg

Gasoline Range Hydrocarbons (GRO) 939 3 35 06.15.2020 11:32 < 50.0 1000 94 964 96 70-135 mg/kg Diesel Range Organics (DRO) < 50.0 1000 982 98 990 99 70-135 35 06.15.2020 11:32 1 mg/kg MB MB LCS LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag Flag Flag %Rec %Rec %Rec Date 06.15.2020 11:32 1-Chlorooctane 78 103 103 70-135 % o-Terphenyl 72 94 90 70-135 % 06.15.2020 11:32

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P Seq Number: 3129093 Matrix: Solid Date Prep: 06.15.2020

MB Sample Id: 7705525-1-BLK

163

199

MB Units Analysis Flag **Parameter** Result Date 06.15.2020 11:12 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: Seq Number: 3129093 Matrix: Soil Date Prep: 06.15.2020 MS Sample Id: 664451-001 S MSD Sample Id: 664451-001 SD Parent Sample Id: 664451-001

Spike MS MS %RPD RPD Units Analysis **Parent** MSD MSD Limits Flag **Parameter** Limit Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 06.15.2020 14:43 99 9 995 1100 101 1090 35 100 70-135 1 mg/kg 06.15.2020 14:43 Diesel Range Organics (DRO) 1710 995 2040 33 2150 44 70-135 5 35 mg/kg X

MS MS **MSD** Units Analysis MSD Limits **Surrogate** Flag Date %Rec Flag %Rec 06.15.2020 14:43 1-Chlorooctane 89 97 70-135 % 06.15.2020 14:43 o-Terphenyl 77 86 70-135 %

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

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

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

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

= MSD/LCSD Result

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

Flag



QC Summary 664463

LT Environmental, Inc.

PLU 320

Analytical Method: BTEX by EPA 8021B SW5035A Prep Method: Seq Number: Matrix: Solid 3129096 Date Prep: 06.15.2020 LCS Sample Id: 7705501-1-BKS LCSD Sample Id: 7705501-1-BSD MB Sample Id: 7705501-1-BLK

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	0.110	110	0.107	107	70-130	3	35	mg/kg	06.15.2020 15:32	
Toluene	< 0.00200	0.100	0.105	105	0.103	103	70-130	2	35	mg/kg	06.15.2020 15:32	
Ethylbenzene	< 0.00200	0.100	0.101	101	0.0993	99	71-129	2	35	mg/kg	06.15.2020 15:32	
m,p-Xylenes	< 0.00400	0.200	0.209	105	0.204	102	70-135	2	35	mg/kg	06.15.2020 15:32	
o-Xylene	< 0.00200	0.100	0.105	105	0.102	102	71-133	3	35	mg/kg	06.15.2020 15:32	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	109		10	07		107		70	-130	%	06.15.2020 15:32	
4-Bromofluorobenzene	97		94		93		70-130		%	06.15.2020 15:32		

Analytical Method: BTEX by EPA 8021B

SW5035A Prep Method: Seq Number: 3129096 Matrix: Soil Date Prep: 06.15.2020 MS Sample Id: 664463-001 S MSD Sample Id: 664463-001 SD Parent Sample Id: 664463-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.105	105	0.114	113	70-130	8	35	mg/kg	06.15.2020 20:38
Toluene	< 0.00200	0.100	0.100	100	0.0988	98	70-130	1	35	mg/kg	06.15.2020 20:38
Ethylbenzene	< 0.00200	0.100	0.0947	95	0.0789	78	71-129	18	35	mg/kg	06.15.2020 20:38
m,p-Xylenes	< 0.00401	0.200	0.193	97	0.158	79	70-135	20	35	mg/kg	06.15.2020 20:38
o-Xylene	< 0.00200	0.100	0.0974	97	0.0790	78	71-133	21	35	mg/kg	06.15.2020 20:38

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		107		70-130	%	06.15.2020 20:38
4-Bromofluorobenzene	90		93		70-130	%	06.15.2020 20:38

Received by OCD: 7/20/2020 10:09:47 AM

Chain of Custody

Work Order No: _

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

	Don Mois		Hobbs,	NM (5/5-39)	Hobbs, NM (575-392-7560) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	x,AZ (480	-355-090)0) Atlan	ta,GA (7	70-449-8	800) 18	mpa,FL (8	13-620-20	000)		WWW	www.xenco.com	com	Page	ge_	1	of	
ompany Name:	LT Environmental, Inc.,		Permian office	Се	Company Name:		XTO Energy	ergy					Prog	gram: (Program: UST/PST	_	~	□RP □ rownfields □ R	1.2	70	1)pe	perfund	
-0	3300 North A Street				Address:								"	tate of	State of Project:					1	1		
ity, State ZIP:	Midland, Tx 79705)5			City, State ZIP:	ά.							Rep	Reporting:Level II	evel II	Level III		ST/UST		□ _R P	Uevel IV	NIE	14
	(432) 236-3849			Email:	Email: wmather@ltenv.com. dmoir@ltenv.com	nv.com.	dmoir@	ltenv.c	m				Deli	/erable	Deliverables: EDD			ADaPT		Other:	er.		
roject Name:		PLU 320		ī	Turn Around					A	NALYS	ANALYSIS REQUEST	UEST							Vork (Work Order Notes	Votes	
oject Number:	01	012920077		Routine	ine q																		
O. Number:		Eddy		Rush:																			
ampler's Name:	Will	William Mather	ř	Due Date:	Date:								-										
SAMPLE RECEIPT	1	Temp, Blank: Y	Yes No	Wet Ice:	Yes No			-															
mperature (°C):	3.2/			Thermometer ID	0	ners																	
eceived Intact:	(Yes)	No	#	1M007		ntai	_																
imple Custody Seals:	s: Yes (No	NA NA	Total C	Total Containers:	4	of C													TAT st	arts the	starts the day recevied by lab, if received by 4:30pm	TAT starts the day recevied by the lab, if received by 4:30pm	the
Sample Identification		Matrix Sa	Date Sampled :	Time Sampled	Depth	Numbe	TPH (EP	Chloride											ço	ample	Sample Comments	nents	
FS10	S		6/15/2020	9:18	1'	1	×	×												င္၀	Composite	Œ.	
FS13	S	6/1	6/15/2020	9:22	0.5'	_	×	×												Cor	Composite		
BH01	S	6/1	6/15/2020	9:50	1.5'	_	×	×												D	Discrete		
BH01A	S	6/1	6/15/2020	10:48	4'	_	×	×												0	Discrete		
		\parallel																					
				11/1	1			\parallel															
				100	2																		
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	10 200.8 / 6020: and Metal(s) to be	20: be analyz	ω	8RCRA 13P	RCRA 13PPM Texas 11 A		Sb As Ba Sb As Ba	Ba Be B Cd Ba Be Cd Cr	CG C7 B CG	လ လူ	r Co	Cr Co Cu Fe Pb Mg Mn Mo I Cu Pb Mn Mo Ni Se Ag Tl U	Pb Mg I	Mn Mc	Mn Mo Ni K Se Ag Ag Tl U	Se A		SiO2 Na Sr Tl Sn U V 1631 / 245.1 / 7470 /	Sr TI	Sn 1	U V Zn 170 / 74:	Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	g
ce: 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 ervice. 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 encor. 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.	ocument and relinquist able only for the cost of ge of \$75.00 will be ap	hment of sam of samples an plied to each	ples constitu d shall not as project and a	tes a valid pu ssume any re a charge of \$6	rchase order from sponsibility for a for each sample	n client co ny losses submitted	mpany to or expens to Xence	Xenco, i ses incur o, but not	ts affiliate red by the analyzed	s and su client if . These t	and subcontractor client if such losses These terms will be	ors. It assi es are due l be enforced	s. It assigns standard terms and condi are due to circumstances beyond the c enforced unless previously negotiated.	ard term stances b reviously	s and co eyond th negotiat	nditions e contro	_						
Relinquished by: (Signature)	(Signature)) _R	ceived by	Received by: (Signature)	re)		Date/Time	ne	R	Relinquished by:	shed b		ture)		Rece	Received by: (Signature)	/: (Sig	nature			Date/	Date/Time	
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Revised Date 051418 Rev. 2018 1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Work Order #: 664463

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

Date/ Time Received: 06.15.2020 02.05.00 PM

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3	
#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 headspa	ace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 06.15.2020

Checklist reviewed by:

Date: 06.15.2020

Certificate of Analysis Summary 664083

LT Environmental, Inc., Arvada, CO

Project Name: PLU 320

Project Id: Contact: 012920077

Dan Moir

Project Location:

Eddy

Date Received in Lab: Wed 06.10.2020 14:35

Report Date: 06.12.2020 08:37

Project Manager: Jessica Kramer

	Lab Id:	664083-0	001	664083-0	02	664083-0	003	664083-0	004	664083-0	005	664083-0	06
Analysis Requested	Field Id:	FS01		FS02		FS03		FS04		FS05		FS06	
Analysis Requested	Depth:	1.5- ft		1.5- ft		1.5- ft		1- ft		1- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	06.09.2020	12:30	06.09.2020	12:31	06.10.2020	09:19	06.09.2020	10:55	06.09.2020	10:56	06.09.2020	13:31
BTEX by EPA 8021B	Extracted:	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10
	Analyzed:	06.11.2020	01:28	06.11.2020	01:48	06.11.2020	02:09	06.11.2020	02:29	06.11.2020	02:50	06.11.2020	03:10
	Units/RL:	mg/kg	RL										
Benzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202
m,p-Xylenes		< 0.00403	0.00403	< 0.00401	0.00401	< 0.00403	0.00403	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00403	0.00403
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202
Total BTEX		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44
	Analyzed:	06.10.2020	17:55	06.10.2020	18:02	06.10.2020	18:09	06.10.2020	18:16	06.10.2020	18:23	06.10.2020	18:30
	Units/RL:	mg/kg	RL										
Chloride		3130	49.9	3640	49.9	2980	50.1	13200	50.0	8290 D	100	8940	50.4
TPH by SW8015 Mod	Extracted:	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00
	Analyzed:	06.10.2020	18:21	06.10.2020	18:41	06.10.2020	19:01	06.10.2020	21:04	06.10.2020	19:22	06.10.2020	19:43
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.3	50.3	<49.8	49.8	< 50.1	50.1	<49.9	49.9	< 50.0	50.0
Diesel Range Organics (DRO)		121	50.2	109	50.3	117	49.8	797	50.1	97.7	49.9	411	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.3	50.3	<49.8	49.8	98.8	50.1	<49.9	49.9	54.9	50.0
Total GRO-DRO		121	50.2	109	50.3	117	49.8	797	50.1	97.7	49.9	411	50.0
Total TPH		121	50.2	109	50.3	117	49.8	896	50.1	97.7	49.9	466	50.0

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

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

Jessica Vramer

Certificate of Analysis Summary 664083

LT Environmental, Inc., Arvada, CO

Project Name: PLU 320

Project Id:

012920077

Contact:

Dan Moir

Project Location:

Eddy

Date Received in Lab: Wed 06.10.2020 14:35

Report Date: 06.12.2020 08:37

Project Manager: Jessica Kramer

	Lab Id:	664083-0	007	664083-0	08	664083-0	009	664083-0	010	664083-0)11	664083-0	12
Analysis Requested	Field Id:	FS07		FS08		FS09		FS10		FS11		FS12	
Anaiysis Requesieu	Depth:	0.5- ft		0.5- ft		0.5- ft		1- ft		0.5- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	06.09.2020	12:10	06.10.2020	09:30	06.09.2020	13:05	06.09.2020	13:06	06.10.2020	09:57	06.10.2020	10:00
BTEX by EPA 8021B	Extracted:	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10
	Analyzed:	06.11.2020	03:31	06.11.2020	04:32	06.11.2020	04:52	06.11.2020	05:13	06.11.2020	05:33	06.11.2020	05:53
	Units/RL:	mg/kg	RL										
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	0.0181	0.00199	< 0.00201	0.00201
m,p-Xylenes		< 0.00399	0.00399	< 0.00399	0.00399	< 0.00403	0.00403	< 0.00402	0.00402	0.0251	0.00398	< 0.00402	0.00402
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	0.0795	0.00199	< 0.00201	0.00201
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	0.105	0.00199	< 0.00201	0.00201
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	0.123	0.00199	< 0.00201	0.00201
Chloride by EPA 300	Extracted:	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44
	Analyzed:	06.10.2020	18:37	06.10.2020	18:58	06.10.2020	19:05	06.10.2020	19:25	06.10.2020	19:32	06.10.2020	19:39
	Units/RL:	mg/kg	RL										
Chloride		2650	49.5	3500	49.9	331	49.9	363	49.8	8930	49.7	5960	50.4
TPH by SW8015 Mod	Extracted:	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00
	Analyzed:	06.10.2020	20:44	06.10.2020	20:03	06.10.2020	20:24	06.10.2020	19:01	06.10.2020	20:24	06.10.2020	19:22
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		< 50.1	50.1	< 50.1	50.1	< 50.2	50.2	< 50.1	50.1	<251	251	<49.8	49.8
Diesel Range Organics (DRO)		358	50.1	75.4	50.1	80.6	50.2	1140	50.1	3410	251	410	49.8
Motor Oil Range Hydrocarbons (MRO)		54.8	50.1	< 50.1	50.1	< 50.2	50.2	119	50.1	342	251	95.1	49.8
Total GRO-DRO		358	50.1	75.4	50.1	80.6	50.2	1140	50.1	3410	251	410	49.8
Total TPH		413	50.1	75.4	50.1	80.6	50.2	1260	50.1	3750	251	505	49.8

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

Jessica Weamer

Certificate of Analysis Summary 664083

LT Environmental, Inc., Arvada, CO

Project Name: PLU 320

Project Id:

Contact:

012920077

Dan Moir

Project Location:

Eddy

Date Received in Lab: Wed 06.10.2020 14:35

Report Date: 06.12.2020 08:37

Project Manager: Jessica Kramer

	Lab Id:	664083-0	13	664083-0	14	664083-0	015	664083-0	016		
Analysis Requested	Field Id:	FS13		FS14		FS15		FS16			
Anaiysis Kequesieu	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft	t		
	Matrix:	SOIL		SOIL		SOIL		SOIL	.		
	Sampled:	06.10.2020	10:15	06.10.2020	10:17	06.10.2020	10:37	06.10.2020	10:40		
BTEX by EPA 8021B	Extracted:	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10	06.10.2020	17:10		
	Analyzed:	06.11.2020	06:14	06.11.2020	06:34	06.11.2020	06:55	06.11.2020	07:15		
	Units/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	< 0.00200	0.00200		
Toluene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200		
Ethylbenzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200		
m,p-Xylenes		< 0.00401	0.00401	< 0.00404	0.00404	< 0.00401	0.00401	< 0.00399	0.00399		
o-Xylene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200		
Total Xylenes		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200		
Total BTEX		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44	06.10.2020	16:44		
	Analyzed:	06.10.2020	19:46	06.10.2020	19:53	06.10.2020	20:00	06.10.2020	20:07		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		7270	50.3	6060	50.1	356	50.4	250	49.7		
TPH by SW8015 Mod	Extracted:	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00	06.10.2020	17:00		
	Analyzed:	06.10.2020	20:44	06.10.2020	21:04	06.10.2020	19:43	06.10.2020	20:03		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	< 50.0	50.0	< 50.2	50.2	< 50.0	50.0		
Diesel Range Organics (DRO)		1150	50.0	844	50.0	205	50.2	266	50.0		
Motor Oil Range Hydrocarbons (MRO)		244	50.0	213	50.0	< 50.2	50.2	< 50.0	50.0		
Total GRO-DRO		1150	50.0	844	50.0	205	50.2	266	50.0		
Total TPH		1390	50.0	1060	50.0	205	50.2	266	50.0		

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

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

Jessica Kramer

Jessica Kramer Project Manager



Analytical Report 664083

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 320 012920077 06.12.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.12.2020

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

Reference: XENCO Report No(s): 664083

PLU 320

Project Address: Eddy

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 664083. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 664083 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 664083

LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	06.09.2020 12:30	1.5 ft	664083-001
FS02	S	06.09.2020 12:31	1.5 ft	664083-002
FS03	S	06.10.2020 09:19	1.5 ft	664083-003
FS04	S	06.09.2020 10:55	1 ft	664083-004
FS05	S	06.09.2020 10:56	1 ft	664083-005
FS06	S	06.09.2020 13:31	1 ft	664083-006
FS07	S	06.09.2020 12:10	0.5 ft	664083-007
FS08	S	06.10.2020 09:30	0.5 ft	664083-008
FS09	S	06.09.2020 13:05	0.5 ft	664083-009
FS10	S	06.09.2020 13:06	1 ft	664083-010
FS11	S	06.10.2020 09:57	0.5 ft	664083-011
FS12	S	06.10.2020 10:00	0.5 ft	664083-012
FS13	S	06.10.2020 10:15	0.5 ft	664083-013
FS14	S	06.10.2020 10:17	0.5 ft	664083-014
FS15	S	06.10.2020 10:37	0.5 ft	664083-015
FS16	S	06.10.2020 10:40	0.5 ft	664083-016

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU 320

Project ID: Report Date: 06.12.2020 012920077 Work Order Number(s): 664083 Date Received: 06.10.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS01** Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-001

Soil Date Collected: 06.09.2020 12:30

Sample Depth: 1.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

% Moisture:

Tech: Analyst:

MAB

Date Prep: 06.10.2020 16:44 Basis:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3130	49.9	mg/kg	06.10.2020 17:55		5

Analytical Method: TPH by SW8015 Mod

DTH

Analyst: DTH

Tech:

Date Prep:

06.10.2020 17:00

Prep Method: SW8015P % Moisture:

Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	06.10.2020 18:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	121	50.2		mg/kg	06.10.2020 18:21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	06.10.2020 18:21	U	1
Total GRO-DRO	PHC628	121	50.2		mg/kg	06.10.2020 18:21		1
Total TPH	PHC635	121	50.2		mg/kg	06.10.2020 18:21		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-135	06.10.2020 18:21		
o-Terphenyl		84-15-1	75	%	70-135	06.10.2020 18:21		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS01**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-001

Soil Date Collected: 06.09.2020 12:30

Sample Depth: 1.5 ft

Prep Method: SW5035A

Analytical Method: BTEX by EPA 8021B

Tech:

MAB

Analyst: MAB

Date Prep: 06.10.2020 17:10 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.11.2020 01:28	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.11.2020 01:28	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.11.2020 01:28	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.11.2020 01:28	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.11.2020 01:28	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.11.2020 01:28	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.11.2020 01:28	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	06.11.2020 01:28	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.11.2020 01:28	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS02**

Matrix: Soil Date Received:06.10.2020 14:35

Lab Sample Id: 664083-002

Date Collected: 06.09.2020 12:31

Sample Depth: 1.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

Analyst:

MAB

Date Prep:

06.10.2020 16:44

Basis:

% Moisture:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3640	49.9	mg/kg	06.10.2020 18:02		5

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH Date Prep:

06.10.2020 17:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	06.10.2020 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	109	50.3		mg/kg	06.10.2020 18:41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	06.10.2020 18:41	U	1
Total GRO-DRO	PHC628	109	50.3		mg/kg	06.10.2020 18:41		1
Total TPH	PHC635	109	50.3		mg/kg	06.10.2020 18:41		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-135	06.10.2020 18:41		
o-Terphenyl		84-15-1	77	%	70-135	06.10.2020 18:41		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id:

FS02

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-002

Soil Date Collected: 06.09.2020 12:31

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 06.10.2020 17:10 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.11.2020 01:48	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.11.2020 01:48	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.11.2020 01:48	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.11.2020 01:48	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.11.2020 01:48	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.11.2020 01:48	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.11.2020 01:48	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	97	%	70-130	06.11.2020 01:48	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.11.2020 01:48	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS03**

Matrix:

Soil

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-003

Date Collected: 06.10.2020 09:19

Sample Depth: 1.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst:

Date Prep:

06.10.2020 16:44

Basis:

% Moisture:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2980	50.1	mg/kg	06.10.2020 18:09		5

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

Seq Number: 3128604

Date Prep:

06.10.2020 17:00

Prep Method: SW8015P

% 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	06.10.2020 19:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	117	49.8		mg/kg	06.10.2020 19:01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	06.10.2020 19:01	U	1
Total GRO-DRO	PHC628	117	49.8		mg/kg	06.10.2020 19:01		1
Total TPH	PHC635	117	49.8		mg/kg	06.10.2020 19:01		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	79	%	70-135	06.10.2020 19:01
o-Terphenyl	84-15-1	74	%	70-135	06.10.2020 19:01



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS03**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-003

Soil Date Collected: 06.10.2020 09:19

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 06.10.2020 17:10 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.11.2020 02:09	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.11.2020 02:09	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.11.2020 02:09	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.11.2020 02:09	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.11.2020 02:09	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.11.2020 02:09	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.11.2020 02:09	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	98	%	70-130	06.11.2020 02:09	
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.11.2020 02:09	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS04**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-004

Soil Date Collected: 06.09.2020 10:55

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

MAB

MAB Analyst:

Date Prep:

06.10.2020 16:44

Basis:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13200	50.0	mg/kg	06.10.2020 18:16		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DTH

DTH

Date Prep:

06.10.2020 17:00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	06.10.2020 21:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	797	50.1		mg/kg	06.10.2020 21:04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	98.8	50.1		mg/kg	06.10.2020 21:04		1
Total GRO-DRO	PHC628	797	50.1		mg/kg	06.10.2020 21:04		1
Total TPH	PHC635	896	50.1		mg/kg	06.10.2020 21:04		1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS04**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-004

Soil Date Collected: 06.09.2020 10:55

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 06.10.2020 17:10 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.11.2020 02:29	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.11.2020 02:29	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.11.2020 02:29	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.11.2020 02:29	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.11.2020 02:29	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.11.2020 02:29	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.11.2020 02:29	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4 Dramaflyanahangana		60.00.4	02	0/	70.120	06 11 2020 02:20		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	06.11.2020 02:29	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.11.2020 02:29	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS05**

Matrix:

Soil

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-005

Date Collected: 06.09.2020 10:56

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

Analyst: MAB Date Prep:

06.10.2020 16:44

Basis:

% Moisture:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Unit	Analysis Date	Flag	Dil
Chloride	16887-00-6	8290	100	mg/k	g 06.11.2020 10:50	D	10

Analytical Method: TPH by SW8015 Mod

DTH

Tech:

Analyst: DTH

Seq Number: 3128604

Date Prep:

06.10.2020 17:00

Prep Method: SW8015P % Moisture:

Basis:

mg/kg

Wet Weight

Flag

Cas Number **Parameter** Result RLUnits **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <49.9 49.9 06.10.2020 19:22 U mg/kg 1 Diesel Range Organics (DRO) C10C28DRO 97.7 06.10.2020 19:22 49.9 mg/kg 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 <49.9 49.9 06.10.2020 19:22 U mg/kg 1 **Total GRO-DRO** PHC628 97.7 49.9 mg/kg 06.10.2020 19:22 **Total TPH** PHC635 97.7 06.10.2020 19:22 49.9 1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	79	%	70-135	06.10.2020 19:22
o-Terphenyl	84-15-1	76	%	70-135	06.10.2020 19:22



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS05** Matrix:

Soil

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-005

Date Collected: 06.09.2020 10:56

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

06.10.2020 17:10

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.11.2020 02:50	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.11.2020 02:50	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.11.2020 02:50	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.11.2020 02:50	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.11.2020 02:50	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.11.2020 02:50	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.11.2020 02:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1 4 D:fl		540.26.2	100	0/	70 120	06 11 2020 02.50		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.11.2020 02:50	
4-Bromofluorobenzene	460-00-4	97	%	70-130	06.11.2020 02:50	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS06**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-006

Soil Date Collected: 06.09.2020 13:31

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 06.10.2020 16:44 Basis:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8940	50.4	mg/kg	06.10.2020 18:30		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

06.10.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	06.10.2020 19:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	411	50.0		mg/kg	06.10.2020 19:43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	54.9	50.0		mg/kg	06.10.2020 19:43		1
Total GRO-DRO	PHC628	411	50.0		mg/kg	06.10.2020 19:43		1
Total TPH	PHC635	466	50.0		mg/kg	06.10.2020 19:43		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1 Chlama a stama		111 05 2	70	0/	70 125	06 10 2020 10:42		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS06**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-006

Soil Date Collected: 06.09.2020 13:31

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 06.10.2020 17:10 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.11.2020 03:10	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.11.2020 03:10	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.11.2020 03:10	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.11.2020 03:10	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.11.2020 03:10	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.11.2020 03:10	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.11.2020 03:10	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flaσ	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	06.11.2020 03:10	
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.11.2020 03:10	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS07**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-007

Soil Date Collected: 06.09.2020 12:10

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

Analyst:

MAB

Date Prep:

06.10.2020 16:44

Basis:

% Moisture:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2650	49.5	mg/kg	06.10.2020 18:37		5

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

06.10.2020 17:00 Date Prep:

Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	06.10.2020 20:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	358	50.1		mg/kg	06.10.2020 20:44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	54.8	50.1		mg/kg	06.10.2020 20:44		1
Total GRO-DRO	PHC628	358	50.1		mg/kg	06.10.2020 20:44		1
Total TPH	PHC635	413	50.1		mg/kg	06.10.2020 20:44		1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	79	%	70-135	06.10.2020 20:44
o-Terphenyl	84-15-1	73	%	70-135	06.10.2020 20:44



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS07**

Matrix: Soil Date Received:06.10.2020 14:35

Lab Sample Id: 664083-007

Date Collected: 06.09.2020 12:10

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

Date Prep: 06.10.2020 17:10 % Moisture: Basis:

Wet Weight

Analyst: MAB Seq Number: 3128596

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.11.2020 03:31	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.11.2020 03:31	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.11.2020 03:31	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.11.2020 03:31	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.11.2020 03:31	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.11.2020 03:31	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.11.2020 03:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	06.11.2020 03:31		
4-Bromofluorobenzene		460-00-4	93	%	70-130	06.11.2020 03:31		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS08**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-008

Soil Date Collected: 06.10.2020 09:30

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

% Moisture:

Tech: Analyst:

MAB

Date Prep: 06.10.2020 16:44 Basis:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3500	49.9	mg/kg	06.10.2020 18:58		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

06.10.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	06.10.2020 20:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	75.4	50.1		mg/kg	06.10.2020 20:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	06.10.2020 20:03	U	1
Total GRO-DRO	PHC628	75.4	50.1		mg/kg	06.10.2020 20:03		1
Total TPH	PHC635	75.4	50.1		mg/kg	06.10.2020 20:03		1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	
4 611			0.0		50 105	0 < 4 0 0 0 0 0 0 0 0 0		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS08**

Matrix:

Date Received:06.10.2020 14:35

Prep Method: SW5035A

Lab Sample Id: 664083-008

Soil Date Collected: 06.10.2020 09:30

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

MAB

% Moisture:

Tech:

Analyst:

MAB

Date Prep: 06.10.2020 17:10 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.11.2020 04:32	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.11.2020 04:32	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.11.2020 04:32	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.11.2020 04:32	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.11.2020 04:32	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.11.2020 04:32	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.11.2020 04:32	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Fla
1,4-Difluorobenzene	540-36-3	112	%	70-130	06.11.2020 04:32	
4-Bromofluorobenzene	460-00-4	100	%	70-130	06.11.2020 04:32	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: FS09

Matrix: Soil

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-009

Date Collected: 06.09.2020 13:05

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 06.10.2020 16:44

Basis:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	331	49.9	mg/kg	06.10.2020 19:05		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:
Analyst:

DTH DTH

Date Prep:

06.10.2020 17:00

% Moisture: Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	06.10.2020 20:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	80.6	50.2		mg/kg	06.10.2020 20:24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	06.10.2020 20:24	U	1
Total GRO-DRO	PHC628	80.6	50.2		mg/kg	06.10.2020 20:24		1
Total TPH	PHC635	80.6	50.2		mg/kg	06.10.2020 20:24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	78	%	70-135	06.10.2020 20:24		
o-Terphenyl		84-15-1	75	%	70-135	06.10.2020 20:24		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS09**

Matrix:

Soil

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-009

Date Collected: 06.09.2020 13:05

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

06.10.2020 17:10

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.11.2020 04:52	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.11.2020 04:52	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.11.2020 04:52	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.11.2020 04:52	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.11.2020 04:52	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.11.2020 04:52	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.11.2020 04:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	06.11.2020 04:52		
4-Bromofluorobenzene		460-00-4	96	%	70-130	06.11.2020 04:52		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS10**

Matrix: Soil Date Received:06.10.2020 14:35

Lab Sample Id: 664083-010

Date Collected: 06.09.2020 13:06

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

06.10.2020 16:44

Basis:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	363	49.8	mg/kg	06.10.2020 19:25		5

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

06.10.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	06.10.2020 19:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	1140	50.1		mg/kg	06.10.2020 19:01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	119	50.1		mg/kg	06.10.2020 19:01		1
Total GRO-DRO	PHC628	1140	50.1		mg/kg	06.10.2020 19:01		1
Total TPH	PHC635	1260	50.1		mg/kg	06.10.2020 19:01		1
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	103	%	70-135	06.10.2020 19:01
o-Terphenyl	84-15-1	97	%	70-135	06.10.2020 19:01



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS10**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-010

Soil Date Collected: 06.09.2020 13:06

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 06.10.2020 17:10 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.11.2020 05:13	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.11.2020 05:13	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.11.2020 05:13	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.11.2020 05:13	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.11.2020 05:13	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.11.2020 05:13	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.11.2020 05:13	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	92	%	70-130	06.11.2020 05:13	
1,4-Difluorobenzene	540-36-3	104	%	70-130	06.11.2020 05:13	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS11**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-011

Soil Date Collected: 06.10.2020 09:57

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

MAB

MAB Analyst:

Date Prep: 06.10.2020 16:44 Basis:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8930	49.7	mg/kg	06.10.2020 19:32		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

06.10.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251		mg/kg	06.10.2020 20:24	U	5
Diesel Range Organics (DRO)	C10C28DRO	3410	251		mg/kg	06.10.2020 20:24		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	342	251		mg/kg	06.10.2020 20:24		5
Total GRO-DRO	PHC628	3410	251		mg/kg	06.10.2020 20:24		5
Total TPH	PHC635	3750	251		mg/kg	06.10.2020 20:24		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	06.10.2020 20:24		
o-Terphenyl		84-15-1	101	%	70-135	06.10.2020 20:24		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS11**

Lab Sample Id: 664083-011

Soil Date Collected: 06.10.2020 09:57 Date Received:06.10.2020 14:35

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech:

MAB

Analyst: MAB

Date Prep:

Matrix:

06.10.2020 17:10

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.11.2020 05:33	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.11.2020 05:33	U	1
Ethylbenzene	100-41-4	0.0181	0.00199		mg/kg	06.11.2020 05:33		1
m,p-Xylenes	179601-23-1	0.0251	0.00398		mg/kg	06.11.2020 05:33		1
o-Xylene	95-47-6	0.0795	0.00199		mg/kg	06.11.2020 05:33		1
Total Xylenes	1330-20-7	0.105	0.00199		mg/kg	06.11.2020 05:33		1
Total BTEX		0.123	0.00199		mg/kg	06.11.2020 05:33		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	70-130	06.11.2020 05:33		
1,4-Difluorobenzene		540-36-3	101	%	70-130	06.11.2020 05:33		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS12**

Matrix: Soil Date Received:06.10.2020 14:35

Lab Sample Id: 664083-012 Date Collected: 06.10.2020 10:00 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

06.10.2020 16:44

Basis:

Wet Weight

Seq Number: 3128567

MAB

MAB

Tech:

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5960	50.4	mg/kg	06.10.2020 19:39		

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

06.10.2020 19:22

% Moisture:

Tech: Analyst: DTH

o-Terphenyl

DTH

06.10.2020 17:00 Date Prep:

70-135

Basis:

Wet Weight

Seq Number: 3128592

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	06.10.2020 19:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	410	49.8		mg/kg	06.10.2020 19:22		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	95.1	49.8		mg/kg	06.10.2020 19:22		1
Total GRO-DRO	PHC628	410	49.8		mg/kg	06.10.2020 19:22		1
Total TPH	PHC635	505	49.8		mg/kg	06.10.2020 19:22		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	06.10.2020 19:22		

95

84-15-1



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS12**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-012

Soil Date Collected: 06.10.2020 10:00

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

06.10.2020 17:10

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.11.2020 05:53	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.11.2020 05:53	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.11.2020 05:53	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.11.2020 05:53	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.11.2020 05:53	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.11.2020 05:53	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.11.2020 05:53	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1 4 D:fl	-	10 26 2	110	0/	70 120	06 11 2020 05.52		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	F
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.11.2020 05:53	
4-Bromofluorobenzene	460-00-4	101	%	70-130	06.11.2020 05:53	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS13**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-013

Soil Date Collected: 06.10.2020 10:15

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep:

06.10.2020 16:44

Basis:

% Moisture:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7270	50.3	mg/kg	06.10.2020 19:46		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DTH DTH

Date Prep:

06.10.2020 17:00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	06.10.2020 20:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	1150	50.0		mg/kg	06.10.2020 20:44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	244	50.0		mg/kg	06.10.2020 20:44		1
Total GRO-DRO	PHC628	1150	50.0		mg/kg	06.10.2020 20:44		1
Total TPH	PHC635	1390	50.0		mg/kg	06.10.2020 20:44		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS13**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-013

Soil Date Collected: 06.10.2020 10:15

06.10.2020 17:10

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: Analyst: MAB MAB

Date Prep:

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.11.2020 06:14	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.11.2020 06:14	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.11.2020 06:14	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.11.2020 06:14	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.11.2020 06:14	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.11.2020 06:14	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.11.2020 06:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	81	%	70-130	06 11 2020 06:14		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	81	%	70-130	06.11.2020 06:14	
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.11.2020 06:14	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS14**

Matrix:

Date Received:06.10.2020 14:35

% Moisture:

Lab Sample Id: 664083-014

Soil Date Collected: 06.10.2020 10:17

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

Analyst:

MAB

Date Prep:

06.10.2020 16:44

Basis:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6060	50.1	mg/kg	06.10.2020 19:53		5

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

Date Prep:

06.10.2020 17:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	06.10.2020 21:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	844	50.0		mg/kg	06.10.2020 21:04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	213	50.0		mg/kg	06.10.2020 21:04		1
Total GRO-DRO	PHC628	844	50.0		mg/kg	06.10.2020 21:04		1
Total TPH	PHC635	1060	50.0		mg/kg	06.10.2020 21:04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	06.10.2020 21:04		
o-Terphenyl		84-15-1	95	%	70-135	06.10.2020 21:04		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS14** Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-014

Soil Date Collected: 06.10.2020 10:17

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

Date Prep: 06.10.2020 17:10 Basis:

% Moisture:

Wet Weight

Analyst: MAB

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.11.2020 06:34	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.11.2020 06:34	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.11.2020 06:34	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	06.11.2020 06:34	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.11.2020 06:34	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.11.2020 06:34	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.11.2020 06:34	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	06.11.2020 06:34	
4-Bromofluorobenzene	460-00-4	89	%	70-130	06.11.2020 06:34	



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS15**

Matrix: Soil Date Received:06.10.2020 14:35

Lab Sample Id: 664083-015

Date Collected: 06.10.2020 10:37

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

MAB

Tech:

Analyst:

Prep Method: E300P

% Moisture:

Seq Number: 3128567

MAB Date Prep: 06.10.2020 16:44

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	356	50.4	mg/kg	06.10.2020 20:00		5

Analytical Method: TPH by SW8015 Mod

DTH

Analyst: DTH

Tech:

Date Prep:

06.10.2020 17:00

Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	06.10.2020 19:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	205	50.2		mg/kg	06.10.2020 19:43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	06.10.2020 19:43	U	1
Total GRO-DRO	PHC628	205	50.2		mg/kg	06.10.2020 19:43		1
Total TPH	PHC635	205	50.2		mg/kg	06.10.2020 19:43		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	100	%	70-135	06.10.2020 19:43
o-Terphenyl	84-15-1	95	%	70-135	06.10.2020 19:43



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS15**

Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-015

Soil Date Collected: 06.10.2020 10:37

Sample Depth: 0.5 ft

Prep Method: SW5035A

06.11.2020 06:55

Analytical Method: BTEX by EPA 8021B

MAB

MAB

Date Prep: 06.10.2020 17:10 % Moisture: Basis:

Wet Weight

Seq Number: 3128596

4-Bromofluorobenzene

Tech:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.11.2020 06:55	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.11.2020 06:55	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.11.2020 06:55	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.11.2020 06:55	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.11.2020 06:55	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.11.2020 06:55	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.11.2020 06:55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	5	540-36-3	110	%	70-130	06.11.2020 06:55		

97

%

70-130

460-00-4



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS16**

Matrix: Soil Date Received:06.10.2020 14:35

Lab Sample Id: 664083-016

Date Collected: 06.10.2020 10:40

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

Analyst:

MAB

Date Prep:

06.10.2020 16:44

Basis:

% Moisture:

Wet Weight

Seq Number: 3128567

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	250	49.7	mg/kg	06.10.2020 20:07		5

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst:

DTH

Date Prep:

06.10.2020 17:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result RL U		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	06.10.2020 20:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	266	50.0		mg/kg	06.10.2020 20:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	06.10.2020 20:03	U	1
Total GRO-DRO	PHC628	266	50.0		mg/kg	06.10.2020 20:03		1
Total TPH	PHC635	266	50.0		mg/kg	06.10.2020 20:03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	06.10.2020 20:03		
o-Terphenyl		84-15-1	96	%	70-135	06.10.2020 20:03		



LT Environmental, Inc., Arvada, CO

PLU 320

Sample Id: **FS16** Matrix:

Date Received:06.10.2020 14:35

Lab Sample Id: 664083-016

Soil Date Collected: 06.10.2020 10:40

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech:

MAB MAB

Date Prep:

06.10.2020 17:10 Basis: Wet Weight

Analyst: Seq Number: 3128596

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.11.2020 07:15	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.11.2020 07:15	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.11.2020 07:15	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.11.2020 07:15	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.11.2020 07:15	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.11.2020 07:15	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.11.2020 07:15	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	93	%	70-130	06.11.2020 07:15	
1,4-Difluorobenzene	540-36-3	102	%	70-130	06.11.2020 07:15	



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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting 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

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

Matrix Spike

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

MSD: Matrix Spike Duplicate

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



QC Summary 664083

LT Environmental, Inc.

PLU 320

E300P Analytical Method: Chloride by EPA 300 Prep Method: Seq Number: 3128567 Matrix: Solid Date Prep: 06.10.2020 7705194-1-BLK LCS Sample Id: 7705194-1-BKS LCSD Sample Id: 7705194-1-BSD MB Sample Id: LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 252 101 254 90-110 20 06.10.2020 15:23 102 1 mg/kg Analytical Method: Chloride by EPA 300 Prep Method: E300P Seq Number: 3128567 Matrix: Soil Date Prep: 06.10.2020 663990-001 663990-001 S MS Sample Id: MSD Sample Id: 663990-001 SD Parent Sample Id: Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date 20 06.10.2020 15:45 Chloride 2020 201 2200 90 2200 89 90-110 0 mg/kg X E300P Analytical Method: Chloride by EPA 300 Prep Method: Seq Number: 3128567 Matrix: Soil Date Prep: 06.10.2020 MS Sample Id: 664083-007 S MSD Sample Id: 664083-007 SD Parent Sample Id: 664083-007 Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 0 20 06.10.2020 18:44 2650 202 2840 94 2840 94 90-110 mg/kg SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: 3128592 Matrix: Solid Seq Number: Date Prep: 06.10.2020 MB Sample Id: 7705214-1-BLK LCS Sample Id: 7705214-1-BKS LCSD Sample Id: 7705214-1-BSD RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 06.10.2020 12:50 1070 35 < 50.0 1000 107 1070 107 70-135 0 mg/kg 06.10.2020 12:50 Diesel Range Organics (DRO) 70-135 35 < 50.0 1000 1140 114 1140 114 0 mg/kg LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag 06.10.2020 12:50 1-Chlorooctane 122 130 128 70-135 % 06.10.2020 12:50 o-Terphenyl 122 123 122 70-135 % SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: Seq Number: 3128604 Matrix: Solid Date Prep: 06.10.2020 LCS Sample Id: 7705215-1-BKS LCSD Sample Id: 7705215-1-BSD MB Sample Id: 7705215-1-BLK MB Spike LCS LCS %RPD RPD Units Analysis LCSD LCSD Limits Flag **Parameter** Limit Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 06.10.2020 12:50 1000 969 97 96 35 mg/kg < 50.0 963 70-135 1 06.10.2020 12:50 Diesel Range Organics (DRO) 1020 102 1040 70-135 < 50.0 1000 104 2 35 mg/kg MB MB LCS LCS LCSD Units Analysis LCSD Limits **Surrogate** Flag Date %Rec Flag %Rec %Rec Flag 06.10.2020 12:50 1-Chlorooctane 91 106 103 70-135 % 06.10.2020 12:50 o-Terphenyl 93 97 97 70-135 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\begin{aligned} [D] &= 100*(C-A) / B \\ RPD &= 200* \mid (C-E) / (C+E) \mid \\ [D] &= 100*(C) / [B] \end{aligned}$

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

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

= MSD/LCSD Result

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



QC Summary 664083

LT Environmental, Inc.

PLU 320

Analytical Method: TPH by SW8015 Mod

Seq Number:

Parameter

3128592

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 06.10.2020

MB Sample Id: 7705214-1-BLK

MB Result

Units

Analysis Date

Motor Oil Range Hydrocarbons (MRO)

< 50.0

06.10.2020 12:30 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

3128604

Matrix: Solid

SW8015P Prep Method:

MB Sample Id: 7705215-1-BLK

Date Prep: 06.10.2020

Parameter

MBResult Units

Analysis Flag Date

Flag

Flag

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

06.10.2020 12:30

Analytical Method: TPH by SW8015 Mod

Seq Number:

3128592

Matrix: Soil

SW8015P Prep Method:

Date Prep: 06.10.2020

Parent Sample Id:

664078-001

MS Sample Id: 664078-001 S MSD Sample Id: 664078-001 SD

Spike %RPD **RPD** MS MS Units Analysis **Parent** MSD MSD Limits **Parameter** Result Result %Rec Limit Date Amount Result %Rec Gasoline Range Hydrocarbons (GRO) <50.3 1010 1060 105 974 70-135 8 35 06.10.2020 17:40 97 mg/kg Diesel Range Organics (DRO) < 50.3 1010 1170 116 1080 108 70-135 8 35 06.10.2020 17:40 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Limi Flag	ts Units	Analysis Date
1-Chlorooctane	123		114	70-13	35 %	06.10.2020 17:40
o-Terphenyl	106		102	70-13	55 %	06.10.2020 17:40

Analytical Method: TPH by SW8015 Mod

Seq Number:

Matrix: Soil

Prep Method:

SW8015P

3128604

Date Prep:

06.10.2020

Parent Sample Id: 664082-001 MS Sample Id: 664082-001 S

MSD Sample Id: 664082-001 SD

%RPD RPD **Parent** Spike MS MS **MSD MSD** Limits Units Analysis **Parameter** Result %Rec Limit Date Result Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 06.10.2020 17:40 < 50.1 923 92 950 3 35 1000 95 70-135 mg/kg 06.10.2020 17:40 Diesel Range Organics (DRO) < 50.1 1000 993 99 1030 70-135 4 35 mg/kg 103

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		95		70-135	%	06.10.2020 17:40
o-Terphenyl	80		83		70-135	%	06.10.2020 17:40



QC Summary 664083

LT Environmental, Inc.

PLU 320

Analytical Method: BTEX by EPA 8021B SW5035A Prep Method: Seq Number: 3128596 Matrix: Solid Date Prep: 06.10.2020 LCS Sample Id: 7705213-1-BKS LCSD Sample Id: 7705213-1-BSD MB Sample Id: 7705213-1-BLK

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	0.102	102	0.106	106	70-130	4	35	mg/kg	06.11.2020 07:56	
Toluene	< 0.00200	0.100	0.0962	96	0.102	102	70-130	6	35	mg/kg	06.11.2020 07:56	
Ethylbenzene	< 0.00200	0.100	0.0906	91	0.0958	96	71-129	6	35	mg/kg	06.11.2020 07:56	
m,p-Xylenes	< 0.00400	0.200	0.185	93	0.198	99	70-135	7	35	mg/kg	06.11.2020 07:56	
o-Xylene	< 0.00200	0.100	0.0954	95	0.101	101	71-133	6	35	mg/kg	06.11.2020 07:56	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	112		10	07		107		70	-130	%	06.11.2020 07:56	
4-Bromofluorobenzene	99		9	4		91		70	-130	%	06.11.2020 07:56	

Analytical Method: BTEX by EPA 8021B

SW5035A Prep Method: Seq Number: 3128596 Matrix: Soil Date Prep: 06.10.2020 MS Sample Id: 664078-001 S MSD Sample Id: 664078-001 SD Parent Sample Id: 664078-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.112	112	0.117	116	70-130	4	35	mg/kg	06.10.2020 23:26	
Toluene	< 0.00199	0.0996	0.103	103	0.109	108	70-130	6	35	mg/kg	06.10.2020 23:26	
Ethylbenzene	< 0.00199	0.0996	0.0943	95	0.102	101	71-129	8	35	mg/kg	06.10.2020 23:26	
m,p-Xylenes	< 0.00398	0.199	0.193	97	0.209	104	70-135	8	35	mg/kg	06.10.2020 23:26	
o-Xylene	< 0.00199	0.0996	0.0992	100	0.107	106	71-133	8	35	mg/kg	06.10.2020 23:26	

Surrogate	MS %Rec	Flag	MSD %Rec	Flag	Limits	Units	Date
1,4-Difluorobenzene	105		108		70-130	%	06.10.2020 23:26
4-Bromofluorobenzene	94		94		70-130	%	06.10.2020 23:26

Address:

Company Name:

LT Environmental, Inc., Permian office

Address: City, State ZIP:

Company Name:

XTO Energy

Program: UST/PST ☐RP ☐rownfields ☐RC

€perfund

www.xenco.com

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Work Order Comments

State of Project:

City, State ZIP:

Midland, Tx 79705 3300 North A Street

Chain of Custody

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

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 Bill to: (if different) Kyle Littrell

retve	ed by	100 January	Relinquished by: (Signature)	Circle Method(s) and Metal(s) to be analyzed	Total 200 7 (2012	FS10	FS09	FS08	FS07	FS06	FS05	FS04	FS03	FS02	FS01	Sample Identification	Sample Custody Seals: Yes	Yes	Received Intact:	4	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	(432) 236-3849	
		Kec	ost of samples and e applied to each p) to be analyze	-			s 6/10	s 6/9	s 6/s	s 6/9	s 6/9	s 6/10	s 6/	s 6/	Matrix Sa	No NA	NO NA	No	4.0	Temp Blank: Y	William Mather	Eddy	012920077	PLU 320		
	40	Received by: (Signature)	shall not assume an roject and a charge	8RCRA	0/3/2020 13:06				6/9/2020 12:10	6/9/2020 13:31	6/9/2020 10:56	6/9/2020 10:55	6/10/2020 9:19	6/9/2020 12:31	6/9/2020 12:30	Date Time Sampled Sampled	Total Containers:	Correction Factor:	THI	Thermometer ID	Yes) No We						-
		lature)	of \$5 for each sample	TCLP / SPLP 6010: 8RCRA	7				0.5'	1 1'	6 1'	5 1'	1.5'	1 1.5'	0 1.5'	e Depth	ners: \((₀	actor: -0-2	400X	meter ID	Wet Ice: (Yes) No	Due Date:	Rush:	Routine 1	Turn Around	Email: wmather@ltenv.com, dmoir@ltenv.com	Oily, Clair Lil
	6/10/20	Date/Time	om client compan any losses or exp e submitted to Xe	11 Al Sb As	1 ×	+	+	-	1 X	×	×	×	1 ×	×		Number			ıtalı	ners						Itenv.com, dr	LIF.
0	4 2	Time	y to Xenco, its at enses incurred tenco, but not ana	As Ba Be B As Ba Be Cd	×	×		-	-	-			×			BTEX (EF	-					-				noir@ltenv.com	
		Relinquished by: (Signature)	filiates and subcontractors. It assigns standard terms and conditions y the client if such losses are due to circumstances beyond the control lyzed. These terms will be enforced unless previously negotiated.	o Cu Fe b Mn Mo																					ANALYSIS REQUEST		Iveh
		Received by: (Signature)	terms and conditions nces beyond the control riously negotiated.	Vi K Se Ag SiO2													ТА									Deliverables: EDD ADaPT	Reporting: Level III 51/UST
		Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Hg	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite		Sample Comments	TAT starts the day recevied by the								Work Order Notes	Othe	T RP UbveilV

Page	110	of.	130
Doio			

Chain of Custody

Work Order No:

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

			TOT	ANALYSIS DECLIEST	Turn Around	PLU 320	. Jose Hallie.
						DILLOCO	Project Name:
	Other	ADaPT []	Deliverables: EDD	com, unonquitenv.com	will give Wite IV. Colli, ullion Witenv.com		
	1] [Com disciplination of the control of	Email: wmather@ltenu	(432) 236-3849	Phone:
Well V	RP	Reporting:Level III ST/UST RP IPvel IV	Reporting:Level II		City, Claic Lil .		
		1			City State 7ID:	Midland, Tx 79705	City, State ZIP:
		rt	State of Project:		Address.		
bennia	50	perium			Addross:	3300 North A Street	Address:
1	3	T RP Trownfields	Program: UST/PS	Company Marie: AIO Erieigy	Company vanie		
				YTO Essent	Company Name	LT Environmental, Inc., Permian office	company Name:
	nts	Work Order Comments		Nyie Liwell	formatter of		
	1	-			Bill to: (if different)	Dan Moir	Dan Moir
of N	Page	www.xenco.com Pa	1-620-2000)	Auania, GA (1/0-449-8800) Tampa, FL (813-620-2000)	the state of the s		Project Manager
1	1			7 (480 366 0000) 48-44 04 (770 140 140 140 140 140 140 140 140 140 14	(575-392-7550) Phoenix A:	Hobbs.NM	

Sample Receipt Temp Blank Yes No Wet Ice: Yes No No Thermometer ID
Matrix Date Time Depth Depth TPH (E
s 6/10/2020 9:57 0.5' 1 x x
s 6/10/2020 10:00 0.5' 1 x x
s 6/10/2020 10:15 0.5' 1 x x
s 6/10/2020 10:17 0.5' 1 x x
s 6/10/2020 10:37 0.5' 1 x x
s 6/10/2020 10:40 0.5' 1 x x
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631
III× o
Received by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) O(0) ZO (4.35) 2

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 06.10.2020 02.35.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 664083

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		4	
#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	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	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	

٠N	lust	he	comp	leted	for	after-	hours	delive	rv of	samples	nrior to	o placino	ı in th	e refria	erator
14	ıusı	υc	CUIID	ICICU	101	aitei-	าเบนเธ	uelive		Sallibles	S DITOL II	J DIACILIC	4 111 111	e remu	si alvi

Analyst:

PH Device/Lot#:

Checklist completed by:

lizabeth McClellan

Date: <u>06.10.2020</u>

Checklist reviewed by:

A promoco

Jessica Kramer

Date: 06.11.2020

Received by OCD: 7/20/2020 10:09:47 AM

Certificate of Analysis Summary 661666

LT Environmental, Inc., Arvada, CO

Project Name: PLU 320 Battery

Project Id: Contact:

012920077 Dan Moir

Date Received in Lab: Thu 05.14.2020 15:26

Report Date: 05.18.2020 13:43

Project Location:					Project M	Ianager: Jessica Krai	mer
	Lab Id:	661666-001	661666-002	661666-003	661666-004		
A sa mlassis Da mar and a l	Field Id:	SS01	SS02	SS03	SS04		

	Lab Id:	661666-0	01	661666-0	02	661666-0	03	661666-0	004		
Analysis Requested	Field Id:	SS01		SS02		SS03		SS04			
Analysis Requesieu	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	05.13.2020	13:04	05.13.2020	13:10	05.13.2020	13:15	05.13.2020	13:20		
BTEX by EPA 8021B	Extracted:	05.14.2020	17:00	05.14.2020	17:00	05.14.2020	16:00	05.14.2020	16:00		
	Analyzed:	05.15.2020	02:47	05.15.2020	03:08	05.14.2020	22:52	05.14.2020	23:12		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		5.78	0.200	< 0.0500	0.0500	< 0.0189	0.0189	< 0.0204	0.0204		
Toluene		38.7	0.200	1.30	0.200	< 0.0189	0.0189	< 0.0204	0.0204		
Ethylbenzene		13.4	0.200	3.49	0.200	< 0.0189	0.0189	0.350	0.0204		
m,p-Xylenes		59.0	0.399	12.8	0.400	< 0.0377	0.0377	0.423	0.0408		
o-Xylene		15.8	0.200	5.66	0.200	< 0.0189	0.0189	1.42	0.0204		
Total Xylenes		74.8	0.200	18.5	0.200	< 0.0189	0.0189	1.84	0.0204		
Total BTEX		133	0.200	23.3	0.0500	< 0.0189	0.0189	2.19	0.0204		
Chloride by EPA 300	Extracted:	05.14.2020	17:43	05.14.2020	17:43	05.14.2020	17:43	05.14.2020	17:43		
	Analyzed:	05.14.2020	20:54	05.14.2020	21:00	05.14.2020	21:06	05.14.2020	21:12		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		13400	498	5360	200	14700	498	2210	198		
TPH by SW8015 Mod	Extracted:	05.14.2020	17:30	05.14.2020	17:30	05.14.2020	17:30	05.14.2020	17:30		
	Analyzed:	05.15.2020	17:39	05.15.2020	18:00	05.15.2020	16:37	05.15.2020	16:57		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		1560	251	3570	249	<74.9	74.9	319	250		
Diesel Range Organics (DRO)		15100	251	17200	249	1810	250	8450	250		
Motor Oil Range Hydrocarbons (MRO)		1450	251	1430	249	350	250	976	250		
Total GRO-DRO		16700	251	20800	249	1810	74.9	8770	250		
Total TPH		18100	251	22200	249	2160	74.9	9750	250		

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

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

Jessica Kramer

Jessica Kramer Project Manager

Analytical Report 661666

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 320 Battery 012920077 05.18.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.18.2020

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

Reference: XENCO Report No(s): 661666

PLU 320 Battery Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661666. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 661666 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 661666

LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	05.13.2020 13:04	0.5 ft	661666-001
SS02	S	05.13.2020 13:10	0.5 ft	661666-002
SS03	S	05.13.2020 13:15	0.5 ft	661666-003
SS04	S	05.13.2020 13:20	0.5 ft	661666-004

Page 116 of 130

CASE NARRATIVE



Client Name: LT Environmental, Inc.

Project Name: PLU 320 Battery

Project ID: Report Date: 05.18.2020 012920077 Work Order Number(s): 661666 Date Received: 05.14.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id: SS01

Matrix: Soil

Date Received:05.14.2020 15:26

Lab Sample Id: 661666-001

Date Collected: 05.13.2020 13:04

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 05.14.2020 17:43

Basis:

Wet Weight

Seq Number: 3126031

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13400	498	mg/kg	05.14.2020 20:54		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:
Analyst:

DTH

DTH

Date Prep: 05.14.2020 17:30

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1560	251		mg/kg	05.15.2020 17:39		5
Diesel Range Organics (DRO)	C10C28DRO	15100	251		mg/kg	05.15.2020 17:39		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1450	251		mg/kg	05.15.2020 17:39		5
Total GRO-DRO	PHC628	16700	251		mg/kg	05.15.2020 17:39		5
Total TPH	PHC635	18100	251		mg/kg	05.15.2020 17:39		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	05.15.2020 17:39		
o-Terphenyl		84-15-1	123	%	70-135	05.15.2020 17:39		



LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id:

Tech:

Analyst:

SS01

Matrix: Soil Date Received:05.14.2020 15:26

Lab Sample Id: 661666-001

Date Collected: 05.13.2020 13:04

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

MAB MAB

Prep Method: SW5035A % Moisture:

Date Prep: 05.14.2020 17:00

Wet Weight Basis:

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	5.78	0.200		mg/kg	05.15.2020 02:47		100
Toluene	108-88-3	38.7	0.200		mg/kg	05.15.2020 02:47		100
Ethylbenzene	100-41-4	13.4	0.200		mg/kg	05.15.2020 02:47		100
m,p-Xylenes	179601-23-1	59.0	0.399		mg/kg	05.15.2020 02:47		100
o-Xylene	95-47-6	15.8	0.200		mg/kg	05.15.2020 02:47		100
Total Xylenes	1330-20-7	74.8	0.200		mg/kg	05.15.2020 02:47		100
Total BTEX		133	0.200		mg/kg	05.15.2020 02:47		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	80	%	70-130	05.15.2020 02:47		
1,4-Difluorobenzene		540-36-3	86	%	70-130	05.15.2020 02:47		



LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id: **SS02**

Lab Sample Id: 661666-002

Matrix: Soil Date Received:05.14.2020 15:26

Date Collected: 05.13.2020 13:10

Sample Depth: 0.5 ft

Prep Method: E300P

% Moisture:

Date Prep:

05.14.2020 17:43

Basis:

Wet Weight

Tech:

MAB

Analytical Method: Chloride by EPA 300

MAB Analyst:

Seq Number: 3126031

Result **Parameter** Cas Number RLUnits **Analysis Date** Dil Flag Chloride 16887-00-6 5360 200 mg/kg 05.14.2020 21:00 20

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

Date Prep: 05.14.2020 17:30 Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	3570	249		mg/kg	05.15.2020 18:00		5
Diesel Range Organics (DRO)	C10C28DRO	17200	249		mg/kg	05.15.2020 18:00		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1430	249		mg/kg	05.15.2020 18:00		5
Total GRO-DRO	PHC628	20800	249		mg/kg	05.15.2020 18:00		5
Total TPH	PHC635	22200	249		mg/kg	05.15.2020 18:00		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	05.15.2020 18:00		
o-Terphenyl		84-15-1	113	%	70-135	05.15.2020 18:00		



LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id: **SS02**

Matrix: Soil Date Received:05.14.2020 15:26

Lab Sample Id: 661666-002

Date Collected: 05.13.2020 13:10

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech:

MAB

MAB Analyst:

Date Prep:

05.14.2020 17:00

Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0500	0.0500		mg/kg	05.15.2020 03:08	U	100
Toluene	108-88-3	1.30	0.200		mg/kg	05.15.2020 03:08		100
Ethylbenzene	100-41-4	3.49	0.200		mg/kg	05.15.2020 03:08		100
m,p-Xylenes	179601-23-1	12.8	0.400		mg/kg	05.15.2020 03:08		100
o-Xylene	95-47-6	5.66	0.200		mg/kg	05.15.2020 03:08		100
Total Xylenes	1330-20-7	18.5	0.200		mg/kg	05.15.2020 03:08		100
Total BTEX		23.3	0.0500		mg/kg	05.15.2020 03:08		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	05.15.2020 03:08		
4-Bromofluorobenzene		460-00-4	104	%	70-130	05.15.2020 03:08		



LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id: **SS03** Matrix:

Date Received:05.14.2020 15:26

Lab Sample Id: 661666-003

Soil Date Collected: 05.13.2020 13:15

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

MAB

Date Prep:

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

Date Prep:

05.14.2020 17:43

05.14.2020 17:30

Basis:

Wet Weight

Seq Number: 3126031

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14700	498	mg/kg	05.14.2020 21:06		50

Analytical Method: TPH by SW8015 Mod

DTH

Tech:

DTH

Analyst: Seq Number: 3126199 Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Cas Number **Parameter** Result RLUnits **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <74.9 74.9 05.15.2020 16:37 5 mg/kg Diesel Range Organics (DRO) C10C28DRO 1810 05.15.2020 16:37 250 5 mg/kg Motor Oil Range Hydrocarbons (MRO) PHCG2835 350 250 05.15.2020 16:37 5 mg/kg **Total GRO-DRO** PHC628 1810 74.9 mg/kg 05.15.2020 16:37 5 **Total TPH** PHC635 05.15.2020 16:37 2160 74.9 5 mg/kg Flag

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	110	%	70-135	05.15.2020 16:37
o-Terphenyl	84-15-1	118	%	70-135	05.15.2020 16:37



LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id: **SS03**

Lab Sample Id: 661666-003

Matrix:

Soil

Date Received:05.14.2020 15:26

Date Collected: 05.13.2020 13:15

Sample Depth: 0.5 ft

05.14.2020 16:00

Prep Method: SW5035A

% Moisture:

Basis:

Wet Weight

Analytical Method: BTEX by EPA 8021B

Tech:

MAB

Analyst:

MAB

Date Prep:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0189	0.0189	mg/kg	05.14.2020 22:52	U	1
Toluene	108-88-3	< 0.0189	0.0189	mg/kg	05.14.2020 22:52	U	1
Ethylbenzene	100-41-4	< 0.0189	0.0189	mg/kg	05.14.2020 22:52	U	1
m,p-Xylenes	179601-23-1	< 0.0377	0.0377	mg/kg	05.14.2020 22:52	U	1
o-Xylene	95-47-6	< 0.0189	0.0189	mg/kg	05.14.2020 22:52	U	1
Total Xylenes	1330-20-7	< 0.0189	0.0189	mg/kg	05.14.2020 22:52	U	1
Total BTEX		< 0.0189	0.0189	mg/kg	05.14.2020 22:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	05.14.2020 22:52	
1,4-Difluorobenzene	540-36-3	101	%	70-130	05.14.2020 22:52	



LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id: **SS04**

Matrix:

Date Received:05.14.2020 15:26

Lab Sample Id: 661666-004

Soil Date Collected: 05.13.2020 13:20

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

Analyst:

MAB

Date Prep:

05.14.2020 17:43

% Moisture: Basis:

Wet Weight

Seq Number: 3126031

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2210	198	mg/kg	05.14.2020 21:12		20

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

o-Terphenyl

Date Prep:

05.14.2020 17:30

Prep Method: SW8015P % Moisture:

05.15.2020 16:57

Basis:

70-135

Wet Weight

Seq Number: 3126199

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	319	250		mg/kg	05.15.2020 16:57		5
Diesel Range Organics (DRO)	C10C28DRO	8450	250		mg/kg	05.15.2020 16:57		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	976	250		mg/kg	05.15.2020 16:57		5
Total GRO-DRO	PHC628	8770	250		mg/kg	05.15.2020 16:57		5
Total TPH	PHC635	9750	250		mg/kg	05.15.2020 16:57		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	129	%	70-135	05.15.2020 16:57		

120

84-15-1



LT Environmental, Inc., Arvada, CO

PLU 320 Battery

Sample Id: **SS04**

Matrix:

Date Received:05.14.2020 15:26

Lab Sample Id: 661666-004

Soil Date Collected: 05.13.2020 13:20

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 05.14.2020 16:00 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0204	0.0204		mg/kg	05.14.2020 23:12	U	1
Toluene	108-88-3	< 0.0204	0.0204		mg/kg	05.14.2020 23:12	U	1
Ethylbenzene	100-41-4	0.350	0.0204		mg/kg	05.14.2020 23:12		1
m,p-Xylenes	179601-23-1	0.423	0.0408		mg/kg	05.14.2020 23:12		1
o-Xylene	95-47-6	1.42	0.0204		mg/kg	05.14.2020 23:12		1
Total Xylenes	1330-20-7	1.84	0.0204		mg/kg	05.14.2020 23:12		1
Total BTEX		2.19	0.0204		mg/kg	05.14.2020 23:12		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4 D		160 00 1	112	0/	70 120	05 14 2020 22-12		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Fla
4-Bromofluorobenzene	460-00-4	112	%	70-130	05.14.2020 23:12	
1,4-Difluorobenzene	540-36-3	93	%	70-130	05.14.2020 23:12	



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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting 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

DLMethod 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

Flag

QC Summary 661666



LT Environmental, Inc.

PLU 320 Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3126031

7703403-1-BLK

Matrix: Solid

LCS Sample Id: 7703403-1-BKS

E300P Prep Method:

Date Prep: 05.14.2020

LCSD Sample Id: 7703403-1-BSD

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

Chloride <10.0 250 250 100 90-110 0 20 05.14.2020 19:43 249 100 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3126031

Matrix: Soil

Prep Method: Date Prep: E300P

Units

Parent Sample Id:

661663-001

661663-001 S MS Sample Id:

MSD Sample Id: 661663-001 SD

05.14.2020

Parameter

Chloride

MB Sample Id:

Parent

MS MS MSD

MSD Limits %RPD RPD Limit Analysis

Analysis

Date

Flag Result Amount Result %Rec Result %Rec Date 20 05.14.2020 20:01 184 200 372 94 403 110 90-110 8 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3126031

Prep Method:

RPD

Limit

20

E300P

Parent Sample Id:

661667-001

Matrix: Soil

98

661667-001 S

Date Prep: 05.14.2020

MSD Sample Id: 661667-001 SD

05.14.2020 21:23

Parameter

Spike **Parent** Result Amount

73.8

MS Sample Id: MS MS Result %Rec

269

MSD Result 269

MSD Limite %Rec 98

90-110

%RPD

0

Units

mg/kg

Analysis Flag Date

Chloride

Analytical Method: TPH by SW8015 Mod

3126199

Matrix: Solid

200

Spike

SW8015P

05.14.2020

Seq Number: MB Sample Id:

7703409-1-BLK

LCS Sample Id: 7703409-1-BKS Date Prep:

Prep Method:

LCSD Sample Id: 7703409-1-BSD

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

Gasoline Range Hydrocarbons (GRO) 05.15.2020 09:41 < 50.0 1070 933 93 35 1000 107 70-135 14 mg/kg 05.15.2020 09:41 Diesel Range Organics (DRO) 1070 107 70-135 35 < 50.0 1000 1120 112 5 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 05.15.2020 09:41 1-Chlorooctane 101 135 122 70-135 % 05.15.2020 09:41 o-Terphenyl 111 117 122 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3126199

Matrix: Solid

Prep Method: Date Prep: SW8015P 05.14.2020

MB Sample Id: 7703409-1-BLK

Parameter

MBResult

Units

Analysis

Date

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

05.15.2020 09:20

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

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

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

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

= MSD/LCSD Result

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

Flag

Flag



QC Summary 661666

LT Environmental, Inc.

PLU 320 Battery

Analytical Method: TPH by SW8015 Mod

Seq Number: 3126199

Parent Sample Id: 661663-001

SW8015P Prep Method: Date Prep: Matrix: Soil 05.14.2020

MS Sample Id: 661663-001 S MSD Sample Id: 661663-001 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)	< 50.3	1010	1010	100	967	97	70-135	4	35	mg/kg	05.15.2020 10:44
Diesel Range Organics (DRO)	< 50.3	1010	1170	116	1150	116	70-135	2	35	mg/kg	05.15.2020 10:44

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		119		70-135	%	05.15.2020 10:44
o-Terphenyl	124		123		70-135	%	05.15.2020 10:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3126047

MB Sample Id: 7703381-1-BLK Matrix: Solid

LCS Sample Id: 7703381-1-BKS

SW5035A Prep Method:

Date Prep: 05.14.2020

LCSD Sample Id: 7703381-1-BSD RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date

05.14.2020 16:04 Benzene < 0.00200 0.100 0.107 107 0.101 70-130 35 101 6 mg/kg 05.14.2020 16:04 Toluene < 0.00200 0.100 0.103 103 0.0974 97 70-130 6 35 mg/kg 05.14.2020 16:04 Ethylbenzene < 0.00200 0.100 0.0974 97 0.0926 93 71-129 5 35 mg/kg 0.200 101 70-135 5 05.14.2020 16:04 m,p-Xylenes < 0.00400 0.201 0.192 96 35 mg/kg 0.101 101 0.0971 71-133 05.14.2020 16:04 o-Xylene < 0.00200 0.100 97 4 35 mg/kg

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		104		100		70-130	%	05.14.2020 16:04
4-Bromofluorobenzene	97		93		91		70-130	%	05.14.2020 16:04

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

Seq Number: 3126048 Matrix: Solid Date Prep: 05.14.2020 LCS Sample Id: 7703384-1-BKS MB Sample Id: 7703384-1-BLK LCSD Sample Id: 7703384-1-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	0.119	119	0.117	117	70-130	2	35	mg/kg	05.14.2020 17:31
Toluene	< 0.00200	0.100	0.110	110	0.109	109	70-130	1	35	mg/kg	05.14.2020 17:31
Ethylbenzene	< 0.00200	0.100	0.105	105	0.102	102	71-129	3	35	mg/kg	05.14.2020 17:31
m,p-Xylenes	< 0.00400	0.200	0.203	102	0.198	99	70-135	2	35	mg/kg	05.14.2020 17:31
o-Xylene	< 0.00200	0.100	0.104	104	0.102	102	71-133	2	35	mg/kg	05.14.2020 17:31

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	115		108		109		70-130	%	05.14.2020 17:31
4-Bromofluorobenzene	102		94		97		70-130	%	05.14.2020 17:31

E = MSD/LCSD Result



LT Environmental, Inc.

PLU 320 Battery

Analytical Method: BTEX by EPA 8021B

Seq Number: 3126047

661635-001

Matrix: Soil

MS Sample Id: 661635-001 S

Prep Method:

SW5035A

Date Prep: 05.14.2020

MSD Sample Id: 661635-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00198	0.0992	0.107	108	0.0992	100	70-130	8	35	mg/kg	05.14.2020 16:45	
Toluene	0.00986	0.0992	0.106	97	0.0955	87	70-130	10	35	mg/kg	05.14.2020 16:45	
Ethylbenzene	0.0147	0.0992	0.0911	77	0.0894	75	71-129	2	35	mg/kg	05.14.2020 16:45	
m,p-Xylenes	0.0337	0.198	0.191	79	0.183	75	70-135	4	35	mg/kg	05.14.2020 16:45	
o-Xylene	0.0207	0.0992	0.0979	78	0.0939	74	71-133	4	35	mg/kg	05.14.2020 16:45	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		105		70	-130	%	05.14.2020 16:45	
4-Bromofluorobenzene			9	95		94		70	-130	%	05.14.2020 16:45	

Analytical Method: BTEX by EPA 8021B

Seq Number: Parent Sample Id:

Parent Sample Id:

3126048

661668-004

Matrix: Soil

MS Sample Id: 661668-004 S

Prep Method:

SW5035A

Date Prep: 05.14.2020

Flag

MSD Sample Id: 661668-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.0998	0.122	122	0.111	111	70-130	9	35	mg/kg	05.14.2020 18:56
Toluene	< 0.00200	0.0998	0.112	112	0.101	101	70-130	10	35	mg/kg	05.14.2020 18:56
Ethylbenzene	< 0.00200	0.0998	0.107	107	0.0948	95	71-129	12	35	mg/kg	05.14.2020 18:56
m,p-Xylenes	< 0.00399	0.200	0.207	104	0.183	92	70-135	12	35	mg/kg	05.14.2020 18:56
o-Xylene	< 0.00200	0.0998	0.106	106	0.0945	95	71-133	11	35	mg/kg	05.14.2020 18:56

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		110		70-130	%	05.14.2020 18:56
4-Bromofluorobenzene	96		91		70-130	%	05.14.2020 18:56

Revised Date 051418 Rev. 2018.1

Chain of Custody

Work Order No:

Page

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 192-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 05.14.2020 03.26.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 661666

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		4.8	
#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	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 headspa	ace?	N/A	

Must be comple	leted for after-hours	delivery of sample	s prior to placing	in the refrigerator
MINDS DE COILIDI	icicu ivi alici-livuis	ueliveiv di Sallible	a bi ioi to biaciliu	III liie ieiiiueialoi

Analyst:

PH Device/Lot#:

Checklist completed by: /

Date: <u>05.14.2020</u>

Checklist reviewed by:

104 profites

Jessica Kramer

Date: 05.15.2020