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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAB1915441034
District RP	2RP-5466
Facility ID	fAB1902455092
Application ID	pAB1915434418

Release Notification

Responsible Party

Responsible Party XTO Energy		OGRID	OGRID 5380				
Contact Name Kyle Littrell				Contact Te	Contact Telephone 432-221-7331		
Contact email Kyle_Littrell@xtoenergy.com Incid			com	Incident #	(assigned by OCD) NAB1915441034		
Contact mail	ling address	522 W. Mermod	, Carlsbad, NM 88	220			
Latitude3.	2.152425°	,		of Release So Longitude _ imal degrees to 5 decim	-103.999079°		
Site Name	Corral Canvo	on Central Tank B	attery	Site Type 7	Temporary Containment at Bulk Storage/Separation Fac.		
Date Release				API# (if app			
TT-:4 T -44		T1.	D	0			
Unit Letter	Section	Township	Range	Coun			
P	5	25S	29E	Edd	y		
Surface Owne	er: State	ĭ Federal ☐ T	ribal 🔲 Private (A	lame: BLM			
			Nature and	Volume of l	Release justification for the volumes provided below)		
Crude Oi	il	Volume Release			Volume Recovered (bbls)		
X Produced	l Water	Volume Release	ed (bbls) 45		Volume Recovered (bbls) 45		
			tion of total dissolv water >10,000 mg		☐ Yes ☐ No		
Condens	ate	Volume Release	ed (bbls)		Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)		Volume Recovered (Mcf)					
Other (describe) Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)					
Cause of Re	A leaki all fluid inspect insuffic	ds, the valve was r	epaired, and the faby email to NMOC	cility was returned D District 2. The	lined containment to overfill. Vacuum truck recovered to operation. A 48-hour advance notice of liner liner was visually inspected and determined to be not and tank will be delineated and remediated as soon as		

State of New Mexico Oil Conservation Division

Incident ID	NAB1915441034	
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Application ID	pAB1915434418	

Was this a major release as defined by	If YES, for what reason(s) does the responsible	e party consider this a major release?
19.15.29.7(A) NMAC?	An unauthorized release of a volume of 25 bar.	rels or more
⊠ Yes □ No		
TOYING		
	notice given to the OCD? By whom? To whom?	When and by what means (phone, email, etc)? Venegas, and Jim Griswold (NMOCD), Jim Amos, Crystal
	cKinney (BLM) on 5/18/2019 by email	venegas, and Jim Onswold (NNOCD), Jim Amos, Crystai
	Initial Resp	onse
The responsible	party must undertake the following actions immediately unl	ess they could create a safety hazard that would result in injury
☐ The source of the rel	lease has been stopped.	
The impacted area ha	as been secured to protect human health and the	environment.
Released materials h	nave been contained via the use of berms or dikes	, absorbent pads, or other containment devices.
All free liquids and r	recoverable materials have been removed and ma	anaged appropriately.
	ed above have not been undertaken, explain why	
N/A		
has begun, please attach	a narrative of actions to date. If remedial effo	diation immediately after discovery of a release. If remediation rts have been successfully completed or if the release occurred the attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	e required to report and/or file certain release notificat nment. The acceptance of a C-141 report by the OCD gate and remediate contamination that pose a threat to	of my knowledge and understand that pursuant to OCD rules and ions and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In onsibility for compliance with any other federal, state, or local laws
Printed Name: Amy C	Ruth	Fitle: SH&E Coordinator
Signature:	The state of the s	Date: 5/31/2019
email: Amy_Ruth@xtoo	energy.com	elephone: 575-689-3380
email:		erepnone:
OCD Only		
Received by:	Amalia Bustamante D	ate: _6/03/2019

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5466
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Each of the following items must be included in the report.
- Zumi of more succession.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☐ Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
☐ Laboratory data including chain of custody

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5466
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature: Mg Fand	Date:11/15/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	2RP-5466
Facility ID	
Application ID	

Closure

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

A scaled site and sampling diagram as described in 19	9.15.29.11 NMAC
Photographs of the remediated site prior to backfill o must be notified 2 days prior to liner inspection)	r photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropr	iate ODC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or fi may endanger public health or the environment. The accept should their operations have failed to adequately investigate human health or the environment. In addition, OCD accept compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area	I complete to the best of my knowledge and understand that pursuant to OCD rules le certain release notifications and perform corrective actions for releases which stance of a C-141 report by the OCD does not relieve the operator of liability e and remediate contamination that pose a threat to groundwater, surface water, tance of a C-141 report does not relieve the operator of responsibility for or regulations. The responsible party acknowledges they must substantially to the conditions that existed prior to the release or their final land use in to the OCD when reclamation and re-vegetation are complete.
	Title:SH&E Supervisor
Signature: Ma Hand	Date:11/15/2019
email:Kyle Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:
	ole party of liability should their operations have failed to adequately investigate and surface water, human health, or the environment nor does not relieve the responsible aws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	



LT Environmental, Inc.

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

November 15, 2019

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

RE: Closure Request

Corral Canyon Central Tank Battery Remediation Permit Number 2RP-5466 Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following report detailing site assessment and soil sampling activities at the Corral Canyon Central Tank Battery (Site) in Unit P, Section 5, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil following a release of produced water at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Closure Report and requesting no further action for Remediation Permit (RP) Number 2RP-5466.

RELEASE BACKGROUND

On May 18, 2019, a leaking valve caused the sand purge tank to overfill and release approximately 45 barrels (bbls) of produced water into the temporary lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluid; all of the fluid that was released was recovered. The valve was repaired and the facility was returned to operation. In addition, XTO conducted a liner integrity inspection. The liner was determined to be compromised and additional investigation activities were required. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on May 31, 2019, and was assigned RP Number 2RP-5466 (Attachment 1).

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 between 51 and 100 feet below ground surface (bgs) based on the nearest water well data. The closest permitted water well with depth to water data is New Mexico Office of the Sate Engineer (NM OSE) Well #RA7162, located





Bratcher, M. Page 2

approximately 6,260 feet southeast of the Site. The water well has a depth to groundwater of approximately 40 feet bgs and a total depth of 55 feet bgs. However, as part of remediation efforts at a nearby site, Corral Canyon #1H flow line (2RP-5201), LTE installed six monitoring wells (MW01 through MW06) to assess depth to groundwater. The groundwater monitoring wells are located approximately 465 feet southeast of the Site. Static water level measured in monitoring wells MW01 through MW06 on September 13, 2019, ranged from 57.26 feet bgs in monitoring well MW04 to 62.29 feet bgs in monitoring well MW02 with an average depth to water of 58.80 feet bgs. The depth to water measurements are provided in the table below and the location of the monitoring wells is identified on Figure 1.

MONITORING WELL INFORMATION

Sample Name	NM OSE	Total Depth	Depth to Water	Sample Date
	Permit No.	(feet bgs)	(feet bgs)	
MW01	C-4324 POD 12	68.44	58.17	09/13/2019
MW02	C-4324 POD 8	68.10	62.29	09/13/2019
MW03	C-4324 POD 9	75.58	58.30	09/13/2019
MW04	C-4324 POD 10	69.08	57.26	09/13/2019
MW05	C-4324 POD 11	64.80	58.54	09/13/2019
MW06	C-4324 POD 6	64.11	58.25	09/13/2019

Notes:

bgs - below ground surface

Based on depth to water measured recently in the nearby monitoring wells, depth to water at the Site is estimated to be between 51 and 100 feet bgs. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash, located approximately 589 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a medium potential karst area.

CLOSURE CRITERIA

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

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





Bratcher, M. Page 3

TPH: 2,500 mg/kg; andChloride: 10,000 mg/kg.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On July 18, 2019, LTE personnel was at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. LTE personnel advanced five potholes via track-mounted backhoe to confirm the presence or absence of impacted soil. Potholes PH01 through PH05 were advanced to a depth of 2 feet bgs. Two delineation soil samples were collected from each pothole from depths of 1 foot and 2 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons utilizing a photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. All potholes were backfilled with the soil removed. The potholes and delineation soil sample locations are depicted on Figure 2.

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

Based on laboratory analytical results for the delineation soil samples, excavation activities did not appear to be warranted. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 3.

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in delineation soil samples PH01/PH01A through PH05/PH05A collected at depths of approximately 1 foot and 2 feet bgs. Laboratory analytical results are presented on Figure 2, and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 4.

CONCLUSIONS

Delineation soil samples PH01/PH01A through PH05/PH05A were collected from within the release extent from depths of 1 foot and 2 feet bgs to assess for the presence or absence of soil impacts as a result of the May 18, 2019, release. Laboratory analytical results for all soil samples indicated benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with





Bratcher, M. Page 4

the Closure Criteria. Additionally, field screening of soil indicated volatile aromatic hydrocarbons and chloride concentrations were not elevated and soil staining and petroleum hydrocarbon odors were not identified within the release extent.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria, no impacted soil was identified and no soil excavation was required as a result of the produced water release. XTO requests no further action for RP Number 2RP-5466. An updated Form C-141 is included as Attachment 1.

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

Sincerely,

LT ENVIRONMENTAL. INC.

Carol Ann Whaley Staff Geologist Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO

United States Bureau of Land Management – New Mexico

Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations

Table 1 Soil Analytical Results

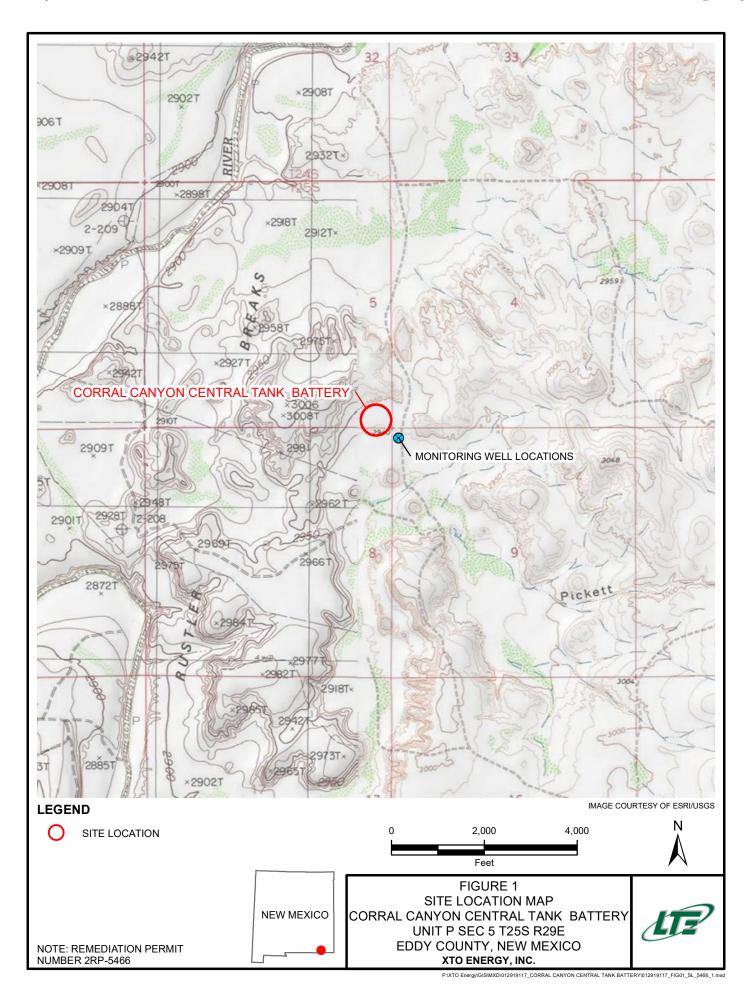
Attachment 1 Initial/Final NMOCD Form C-141 (2RP-5466)

Attachment 2 Lithologic / Soil Sampling Logs

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports





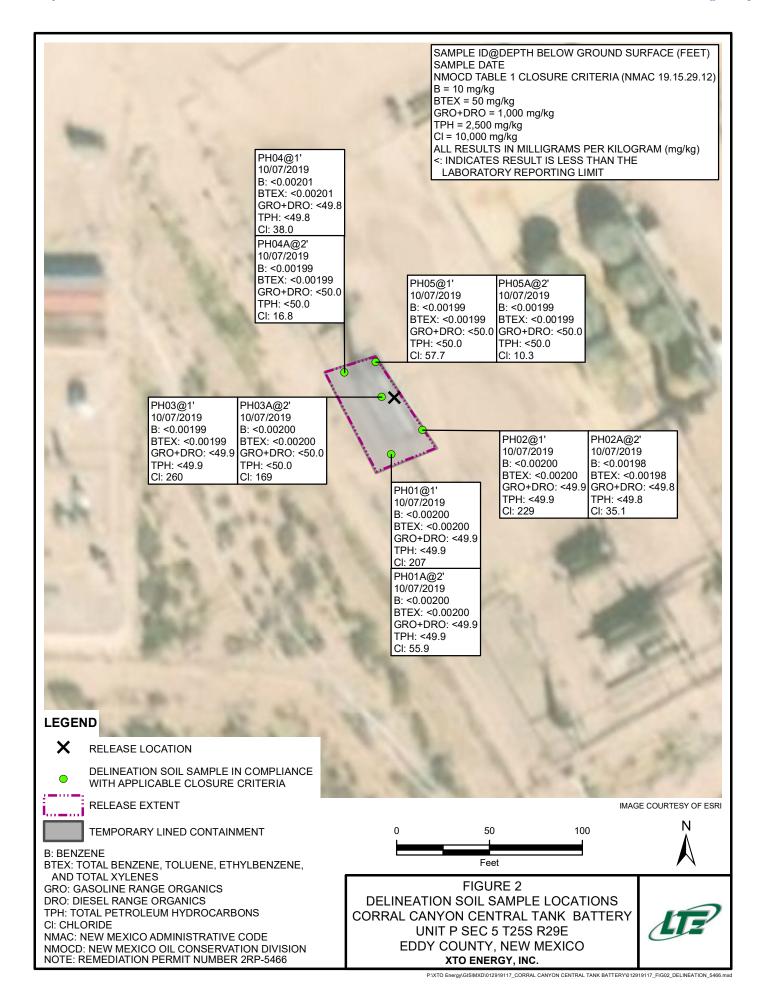




TABLE 1 SOIL ANALYTICAL RESULTS

CORRAL CANYON CENTRAL TANK BATTERY REMEDIATION PERMIT NUMBER 2RP-5466 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)
PH01	1	10/07/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	207
PH01A	2	10/07/2019	< 0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	55.9
PH02	1	10/07/2019	< 0.00200	<0.00200	<0.00200	< 0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	229
PH02A	2	10/07/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	35.1
PH03	1	10/07/2019	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	260
PH03A	2	10/07/2019	< 0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	169
PH04	1	10/07/2019	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	38.0
PH04A	2	10/07/2019	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	16.8
PH05	1	10/07/2019	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	57.7
PH05A	2	10/07/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	10.3
NMOCD Table 1 Closure Criteria		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000	

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons

mg/kg - milligrams per kilogram

< - indicates result is below laboratory reporting limits

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

NE - not established





District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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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	NAB1915441034
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Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID	OGRID 5380		
Contact Name Kyle Littrell				Contact Te	Contact Telephone 432-221-7331		
Contact ema	il Kyle_Lit	ttrell@xtoenergy.c	com	Incident #	Incident # (assigned by OCD) NAB1915441034		
Contact mail	ing address	522 W. Mermod	, Carlsbad, NM 88	220			
atitude32	2.152425°		-	of Release So Longitude _ imal degrees to 5 decim	-103.999079°		
Site Name	Corral Canyo	on Central Tank B	attery	Site Type T	Femporary Containment at Bulk Storage/Separation Fac.		
Date Release			unor j	API# (if app			
TTuis T	G	T1'	Davis		<u></u>		
Unit Letter	Section	Township	Range	Coun	20 - 2		
P	5	25S	29E	Edd	y		
urface Owne	r: State	▼ Federal □ T	ribal Private (A	Jame: BLM			
Crude Oi		ul(s) Released (Select a	ll that apply and attach	Volume of I	instification for the volumes provided below) Volume Recovered (bbls)		
➤ Produced		Volume Release	1.011.3		7/1 D 1/1/1)		
Froduced	water	Is the concentra	tion of total dissolv water >10,000 mg.		Volume Recovered (bbls) 45 ☐ Yes ☐ No		
Condensa	ate	Volume Release		••	Volume Recovered (bbls)		
Natural C	Gas	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide uni			Released (provide	units)	Volume/Weight Recovered (provide units)		
Cause of Rel	A leaki all fluid inspect	ds, the valve was r	epaired, and the faby by email to NMOC	cility was returned CD District 2. The	lined containment to overfill. Vacuum truck recovered to operation. A 48-hour advance notice of liner liner was visually inspected and determined to be		
		cient. Potentially k is removed.	impacted soils bene	eath the containme	ent and tank will be delineated and remediated as soon a		

State of New Mexico Oil Conservation Division

Incident ID	NAB1915441034	
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Facility ID	fAB1902455092	
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Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?			
release as defined by 19.15.29.7(A) NMAC?		1			
	An unauthorized release of a volume of 25	barrels or more			
Yes No					
TOTAL TOTAL	l l agpa p l ag	0.177			
2000-00-00	The second secon	om? When and by what means (phone, email, etc)? oria Venegas, and Jim Griswold (NMOCD), Jim Amos, Crystal			
	EKinney (BLM) on 5/18/2019 by email	ma venegas, and min Grisword (Nivioco), min Amos, Crystai			
	Initial Ro	esponse			
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury			
➤ The source of the rele	ease has been stopped.				
▼ The impacted area has	as been secured to protect human health and	the environment.			
Released materials h	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.			
All free liquids and r	ecoverable materials have been removed and	d managed appropriately.			
If all the actions describe	ed above have not been undertaken, explain	why:			
N/A					
Don 10 15 20 9 D (4) NA	AAC the resmansible porty may commence	emediation immediately after discovery of a release. If remediation			
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.			
I hereby certify that the info	ormation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and			
regulations all operators are public health or the environ	e required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have			
failed to adequately investig	gate and remediate contamination that pose a three	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws			
and/or regulations.	of a C-141 report does not reneve the operator of				
Printed Name: Amy C	Ruth /	Title: SH&E Coordinator			
Timed Name.					
Signature: Date:					
email: Amy_Ruth@xtoenergy.com Telephone: 575-689-3380					
OCD Only					
Received by:	Amalia Bustamante	Date: 6/03/2019			

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5466
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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?	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No

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

Characterization Report Checklist: Each of the following items must be included in the report.
- Zumi of more succession.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☐ Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
☐ Laboratory data including chain of custody

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5466
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release notify public health or the environment. The acceptance of a C-141 report by the O failed to adequately investigate and remediate contamination that pose a three addition, OCD acceptance of a C-141 report does not relieve the operator of a and/or regulations.	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature: Ma Hand	Date:11/15/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	2RP-5466
Facility ID	
Application ID	

Closure

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

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
□ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)						
□ Description of remediation activities						
and regulations all operators are required to report and/or file cemay endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or reg	replete to the best of my knowledge and understand that pursuant to OCD rules retain release notifications and perform corrective actions for releases which e of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for gulations. The responsible party acknowledges they must substantially e conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.					
Printed Name: Kyle Littrell						
Signature: Ma Jacob	Date: <u>1</u> 1/15/201 <u>9</u>					
email: Kyle Littrell@xtoenergy.com	Telephone:432-221-7331					
OCD Only						
Received by:	Date:					
	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible nd/or regulations.					
Closure Approved by:	Date:					
Printed Name:	Title:					
_						

U Environ	nental, Inc.		Ca Comp	508 We: rlsbad, i liance · L	ironment st Stevens New Mexi Engineering	s Street co 88220 g · Remedi	ation		Project Name: Cornal CTB	Canyon	Date: 0/07 19 RP Number: 288-5466
Lat/Long		LITHO	LOGIC	S / SOI	L SAMP)G		Logged By: R		Method: Pothole Total Depth:
Commen	ts:									2'	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type			Lithology/Rem	narks
D	<124	0.8	7		0]	ľ	S	C	CHCE	White	
M	(124	1.4	N	-	2	2'	5	5	P-SM	Brown	
					3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 11 - 11						

1110

1115

IJ₽		LT Environment	al, Inc.		Identifier: PHO2	Date: 10/07/19
Environmental, Inc.		508 West Steven: arlsbad, New Mexi oliance · Engineering			Project Name: Corral Canyon	RP Number:
		C / SOIL SAMP			Logged By: Robect	
Lat/Long:	LITHOLOGIC	Field Scree			Hole Diameter:	Method: Polhole Total Depth:
Comments:					2'	
Moisture Content Chloride (ppm)	Vapor (ppm) Staining	# Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithole	ogy/Remarks
D 386	0.8 N		- - - - -	5	CHCE Wh	iłe
M 2124	0.9 N	2	2'	5	SP-SM Br	swh.
		3 4 5 6 7 8 9				

1150

1135

_	nmental, Inc.	LITHO	Comp	liance · l	ironments st Stevens New Mexic Engineering L SAMP	Remedi	iation	Identifier: PHO3 Project Name: Corral Canyon CTB Logged By: Robert M Hole Diameter: 2' Date: 10/07/19 RP Number: 2RP-5466 Method: Porhole Total Depth:
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D	200	0.6	2		1		5	CHCE White
M	<12 4	1.0	N		2	2'	5	SP-SM Brown
					3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12			

1200

1205

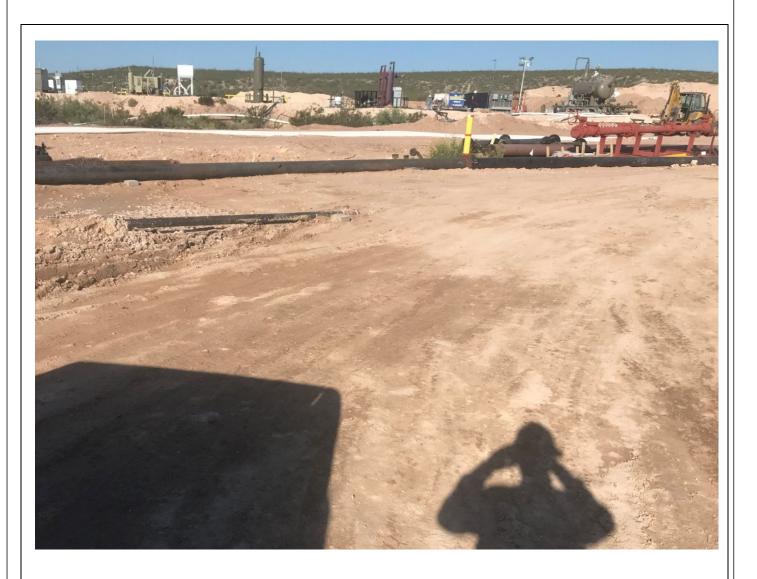
El Environ	pental inc.	I IMY	Comp	508 Wes risbad, i iliance · E	ngineerin	s Street ico 88220 g · Remedi	iation	Identifier: PHOY Date: 10/07/19 Project Name: RP Number: 2RP - 5466
Lat/Long:		LITHO	LOGIC	7801	Field Scree	LING LO)G	Logged By: Robert M. Method: Polhole Hole Diameter: Total Depth:
Comment								Hole Diameter: 2' Total Depth:
Commen								
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D	<124	1.2	N		1 _		S	CHCE White
M	2124	1.0	N		2	2'	ς	SP-SM Brown
					3 - 4			

	mental, Inc.	LITHO	Ca Comp	508 We: rlsbad, i liance · L	ironments st Stevens New Mexic Engineering L SAMPI Field Scree	Street co 88220 g · Remedi LING LO	iation	Identifier: PHO5 Project Name: Corral Canyon CTB Logged By: Robert M Hole Diameter: Method: Pothole Total Depth:
Commen	ts:							Z' '
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type	Lithology/Remarks
D	Z124	0.7	N		0]	- '	5	CACE White
m	C124	1.2	N		2	2'	5	SP-SM Brown
					4 5 6 7 8 9 10 11 11			



Eastern view of release area during site assessment activities.

Project: 012919117	XTO Energy, Inc. Corral Canyon Central Tank Battery	LTZ
July 18, 2019	Photographic Log	Advancing Opportunity



Eastern view of release area during delineation soil sampling activities.

Project: 012919117	XTO Energy, Inc. Corral Canyon Central Tank Battery	LIE
October 7, 2019	Photographic Log	Advancing Opportunity

Analytical Report 639278

for

LT Environmental, Inc.

Project Manager: Dan Moir Corral Canyon CTB 012919117 11-OCT-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142), North Carolina (681)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-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)



11-OCT-19

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

Reference: XENCO Report No(s): 639278

Corral Canyon CTBProject 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) 639278. 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. 639278 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 Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 639278

LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-07-19 10:55	1 ft	639278-001
PH01A	S	10-07-19 11:00	2 ft	639278-002
PH02	S	10-07-19 11:10	1 ft	639278-003
PH02A	S	10-07-19 11:15	2 ft	639278-004
PH03	S	10-07-19 11:30	1 ft	639278-005
PH03A	S	10-07-19 11:35	2 ft	639278-006
PH04	S	10-07-19 12:00	1 ft	639278-007
PH04A	S	10-07-19 12:20	2 ft	639278-008
PH05	S	10-07-19 12:05	1 ft	639278-009
PH05A	S	10-07-19 12:25	2 ft	639278-010



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Corral Canyon CTB

 Project ID:
 012919117
 Report Date:
 11-OCT-19

 Work Order Number(s):
 639278
 Date Received:
 10/08/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3103920 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Lab Sample ID 639278-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 639278-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Ethylbenzene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 639278-001, -002, -003, -004, -005, -006, -007, -008, -009, -010



Certificate of Analysis Summary 639278 LT Environmental, Inc., Arvada, CO

Project Name: Corral Canyon CTB

Project Id:

012919117 Dan Moir

Contact: Project Location: **Date Received in Lab:** Tue Oct-08-19 08:47 am

Report Date: 11-OCT-19 Project Manager: Jessica Kramer

	Lab Id:	639278-0	001	639278-0	002	639278-0	003	639278-	004	639278-	005	639278-	006
Analysis Requested	Field Id:	PH01		PH01A	A	PH02		PH02A		PH03		PH03	A
Mulysis Requesieu	Depth:	1- ft SOIL		2- ft SOIL		1- ft		2- ft		1- ft		2- ft	
	Matrix:					SOIL		SOIL		SOIL	,	SOIL	
	Sampled:	Oct-07-19	10:55	Oct-07-19	11:00	Oct-07-19	11:10	Oct-07-19	11:15	Oct-07-19	11:30	Oct-07-19	11:35
BTEX by EPA 8021B	Extracted:	Oct-08-19 16:00		Oct-08-19	Oct-08-19 16:00		16:00	Oct-08-19	16:00	Oct-08-19	16:00	Oct-08-19 16:00	
SUB: T104704400-19-19	Analyzed:	Oct-09-19	23:12	Oct-09-19	23:32	Oct-09-19	23:52	Oct-10-19	00:12	Oct-10-19	00:32	Oct-10-19	00:52
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200
m,p-Xylenes		< 0.00399	0.00399	< 0.00399	0.00399	< 0.00399	0.00399	< 0.00396	0.00396	< 0.00398	0.00398	< 0.00400	0.00400
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Oct-08-19	15:35	Oct-08-19	15:35	Oct-08-19	15:35	Oct-08-19	15:35	Oct-08-19	15:35	Oct-08-19	15:35
SUB: T104704400-19-19	Analyzed:	Oct-08-19	16:34	Oct-08-19	16:41	Oct-08-19	17:02	Oct-08-19	17:09	Oct-08-19	17:15	Oct-08-19	17:22
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		207	5.05	55.9	5.05	229	4.98	35.1	5.00	260	5.01	169	4.96
TPH by SW8015 Mod	Extracted:	Oct-09-19	17:00	Oct-09-19	17:00	Oct-09-19	17:00	Oct-09-19	17:00	Oct-09-19	17:00	Oct-09-19	17:00
SUB: T104704400-19-19	Analyzed:	Oct-09-19	22:41	Oct-09-19	23:43	Oct-10-19	00:04	Oct-10-19	00:25	Oct-10-19	00:46	Oct-10-19	01:07
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9	< 50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9	< 50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9	< 50.0	50.0
Total GRO-DRO		<49.9	49.9	<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9	< 50.0	50.0
Total TPH		<49.9	49.9	<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9	< 50.0	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



Dan Moir

LT Environmental, Inc., Arvada, CO

Certificate of Analysis Summary 639278

Project Name: Corral Canyon CTB

Project Id:

Project Location:

Contact:

012919117

Date Received in Lab: Tue Oct-08-19 08:47 am

Report Date: 11-OCT-19 Project Manager: Jessica Kramer

Lab Id: 639278-007 639278-008 639278-009 639278-010 Field Id:	
Depth: 1- ft 2- ft 1- ft 2- ft 1- ft 2- ft 2- ft 30IL SOIL	
Depth:	
Sampled: Oct-07-19 12:00 Oct-07-19 12:05 Oct-07-19 12:05 Oct-07-19 12:25	
BTEX by EPA 8021B Extracted: Oct-08-19 16:00 Oct-08-19 16:	
SUB: T104704400-19-19 Analyzed: Units/RL: Oct-10-19 01:13 Oct-10-19 01:33 Oct-10-19 01:53 Oct-10-19 01:53 Oct-10-19 02:13 Benzene <0.00201	
Maday,ed. Oct-10-19 0f.13 Oct-10-19 0f.13	
Benzene	
Toluene	
Ethylbenzene	
m,p-Xylenes	
o-Xylene <0.00201 0.00201 <0.00199 0.00199 <td></td>	
Total Xylenes	
Total BTEX <0.00201 0.00201 <0.00199 0.00199 <0.00199 0.00199 <0.00199 0.00199	
Chloride by EPA 300	
SUD. T104704400 10 10	
SUB: T104704400-19-19 Analyzed: Oct-08-19 17:29 Oct-08-19 17:36 Oct-08-19 17:57 Oct-08-19 18:03	
Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL	
Chloride 38.0 4.99 16.8 5.04 57.7 4.98 10.3 5.00	
TPH by SW8015 Mod	
SUB: T104704400-19-19 Analyzed: Oct-10-19 01:28 Oct-10-19 01:49 Oct-10-19 02:09 Oct-10-19 02:30	
Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL	
Gasoline Range Hydrocarbons (GRO) <49.8 49.8 <50.0 50.0 <50.0 50.0 <50.0 50.0	
Diesel Range Organics (DRO) <49.8 49.8 <50.0 50.0 <50.0 50.0 <50.0 50.0	
Motor Oil Range Hydrocarbons (MRO) <49.8 49.8 <50.0 50.0 <50.0 50.0 <50.0 50.0	
Total GRO-DRO <49.8 49.8 <50.0 50.0 <50.0 50.0 <50.0 50.0	
Total TPH <49.8 49.8 <50.0 50.0 <50.0 50.0 <50.0 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 Project Assistant



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Soil

PH01 Sample Id:

Matrix:

Date Received:10.08.19 08.47

Lab Sample Id: 639278-001

Date Collected: 10.07.19 10.55

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

Analyst:

CHE CHE

Basis:

Wet Weight

Seq Number: 3103709

Date Prep:

10.08.19 15.35

SUB: T104704400-19-19

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 207 5.05 mg/kg 10.08.19 16.34

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DVM ARM

10.09.19 17.00 Date Prep:

% Moisture:

Basis: Wet Weight

Seq Number: 3103874

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.09.19 22.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.09.19 22.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.09.19 22.41	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.09.19 22.41	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.09.19 22.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	10.09.19 22.41		
o-Terphenyl		84-15-1	104	%	70-135	10.09.19 22.41		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id: PH01

Matrix: Soil

Date Received:10.08.19 08.47

Lab Sample Id: 639278-001

Date Collected: 10.07.19 10.55

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

% Moisture:

Tech: Analyst: KTL KTL

Date Prep: 10.08.19 16.00 Basis:

s: Wet Weight

Prep Method: SW5030B

Seq Number: 3103920

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.09.19 23.12	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.09.19 23.12	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.09.19 23.12	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.09.19 23.12	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.09.19 23.12	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.09.19 23.12	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.09.19 23.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	70-130	10.09.19 23.12		
4-Bromofluorobenzene		460-00-4	106	%	70-130	10.09.19 23.12		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id: PH01A

Matrix: Soil

Date Prep:

Date Received:10.08.19 08.47

Lab Sample Id: 639278-002

Date Collected: 10.07.19 11.00

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

10.08.19 15.35

Basis:

Wet Weight

Seq Number: 3103709

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.9	5.05	mg/kg	10.08.19 16.41		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

10.09.19 23.43

U

1

Tech:

Parameter

Total GRO-DRO Total TPH

DVM

Gasoline Range Hydrocarbons (GRO)
Diesel Range Organics (DRO)
Motor Oil Range Hydrocarbons (MRO)

% Moisture:

Analyst: ARM

Date Prep: 10.09.19 17.00

49.9

Basis: Wet Weight SUB: T104704400-19-19

Seq Number: 3103874

Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
PHC610	<49.9	49.9	mg/kg	10.09.19 23.43	U	1	
C10C28DRO	<49.9	49.9	mg/kg	10.09.19 23.43	U	1	
PHCG2835	<49.9	49.9	mg/kg	10.09.19 23.43	U	1	
PHC628	<49.9	49.9	mg/kg	10.09.19 23.43	U	1	

mg/kg

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.09.19 23.43	
o-Terphenyl	84-15-1	110	%	70-135	10.09.19 23.43	

<49.9

PHC635



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id: PH01A

Matrix: Soil

Date Received:10.08.19 08.47

Lab Sample Id: 639278-002

Date Collected: 10.07.19 11.00

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B % Moisture:

Tech: Analyst: KTL KTL

Date Prep: 10.08.19 16.00

Basis:

Wet Weight

Seq Number: 3103920

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.09.19 23.32	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.09.19 23.32	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.09.19 23.32	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.09.19 23.32	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.09.19 23.32	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.09.19 23.32	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.09.19 23.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	89	%	70-130	10.09.19 23.32		
4-Bromofluorobenzene		460-00-4	115	%	70-130	10.09.19 23.32		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id: PH02

Matrix: Soil

Date Received:10.08.19 08.47

Lab Sample Id: 639278-003

Date Collected: 10.07.19 11.10

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep: 10.08.19 15.35

Basis:

Wet Weight

Seq Number: 3103709

....

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	229	4.98	mg/kg	10.08.19 17.02		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

Date Prep: 10.09.19 17.00

Basis: Wet Weight

Seq Number: 3103874

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.10.19 00.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.10.19 00.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.10.19 00.04	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.10.19 00.04	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.10.19 00.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	10.10.19 00.04		
o-Terphenyl		84-15-1	104	%	70-135	10.10.19 00.04		



Analytical Method: BTEX by EPA 8021B

KTL

Tech:

Certificate of Analytical Results 639278

LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

PH02 Sample Id:

Soil Matrix:

Date Received:10.08.19 08.47

Lab Sample Id: 639278-003 Date Collected: 10.07.19 11.10 Sample Depth: 1 ft

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

KTL Analyst: 10.08.19 16.00 Date Prep: Seq Number: 3103920 SUB: T104704400-19-19

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.09.19 23.52	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.09.19 23.52	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.09.19 23.52	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.09.19 23.52	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.09.19 23.52	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.09.19 23.52	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.09.19 23.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	113	%	70-130	10.09.19 23.52		
1,4-Difluorobenzene		540-36-3	87	%	70-130	10.09.19 23.52		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

PH02A Sample Id:

Soil Matrix:

Date Received:10.08.19 08.47

Lab Sample Id: 639278-004

Date Collected: 10.07.19 11.15

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

CHE

Analyst:

CHE

Date Prep:

Basis:

Wet Weight

Seq Number: 3103709

10.08.19 15.35

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.1	5.00	mg/kg	10.08.19 17.09		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst: Seq Number: 3103874

Date Prep: 10.09.19 17.00 Basis: Wet Weight SUB: T104704400-19-19

Flag

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 10.10.19 00.25 U <49.8 49.8 mg/kg Diesel Range Organics (DRO) C10C28DRO 10.10.19 00.25 U <49.8 49.8 mg/kg 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 <49.8 49.8 10.10.19 00.25 U mg/kg 1 Total GRO-DRO PHC628 <49.8 49.8 mg/kg $10.10.19\ 00.25$ U 1 Total TPH PHC635 <49.8 49.8 10.10.19 00.25 U 1 mg/kg

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	
1-Chlorooctane	111-85-3	96	%	70-135	10.10.19 00.25	
o-Terphenyl	84-15-1	102	%	70-135	10.10.19 00.25	



Analytical Method: BTEX by EPA 8021B

KTL

KTL

Seq Number: 3103920

Tech:

Analyst:

Certificate of Analytical Results 639278

LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Soil

PH02A Sample Id: Matrix: Date Received:10.08.19 08.47

Lab Sample Id: 639278-004 Date Collected: 10.07.19 11.15 Sample Depth: 2 ft

Prep Method: SW5030B

% Moisture:

Basis:

10.08.19 16.00

SUB: T104704400-19-19

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	10.10.19 00.12	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	10.10.19 00.12	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	10.10.19 00.12	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	10.10.19 00.12	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	10.10.19 00.12	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	10.10.19 00.12	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	10.10.19 00.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	10.10.19 00.12		
1,4-Difluorobenzene		540-36-3	88	%	70-130	10.10.19 00.12		

Date Prep:



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

PH03 Sample Id:

Matrix: Soil Date Received:10.08.19 08.47

Lab Sample Id: 639278-005

Date Collected: 10.07.19 11.30

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

10.08.19 15.35 Date Prep:

Basis:

Wet Weight

Seq Number: 3103709

SUB: T104704400-19-19

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 10.08.19 17.15 260 5.01 mg/kg

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

10.09.19 17.00 Date Prep:

Basis: Wet Weight

Seq Number: 3103874

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.10.19 00.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.10.19 00.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.10.19 00.46	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.10.19 00.46	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.10.19 00.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	10.10.19 00.46		
o-Terphenyl		84-15-1	111	%	70-135	10.10.19 00.46		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Soil

Sample Id: PH03 Matrix:

Lab Sample Id: 639278-005 Date Collected: 10.07.19 11.30

Date Received:10.08.19 08.47

07.19 11.30 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

% Moisture:

Tech: KTL Analyst: KTL

Seq Number: 3103920

Date Prep: 10.08.19 16.00

Basis: Wet Weight SUB: T104704400-19-19

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.10.19 00.32	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.10.19 00.32	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.10.19 00.32	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.10.19 00.32	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.10.19 00.32	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.10.19 00.32	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.10.19 00.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	88	%	70-130	10.10.19 00.32		
4-Bromofluorobenzene		460-00-4	116	%	70-130	10.10.19 00.32		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

PH03A Sample Id:

Seq Number: 3103709

Matrix: Soil Date Received:10.08.19 08.47

Lab Sample Id: 639278-006

Date Collected: 10.07.19 11.35

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

CHE

Analyst:

CHE

Date Prep:

10.08.19 15.35

Basis:

Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	169	4.96	mg/kg	10.08.19 17.22		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Seq Number: 3103874

10.09.19 17.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.10.19 01.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.10.19 01.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.10.19 01.07	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.10.19 01.07	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.10.19 01.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	10.10.19 01.07		
o-Terphenyl		84-15-1	105	%	70-135	10.10.19 01.07		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

PH03A Sample Id:

Soil Matrix:

Date Received:10.08.19 08.47

Lab Sample Id: 639278-006

Seq Number: 3103920

Date Collected: 10.07.19 11.35

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst:

KTL

10.08.19 16.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.10.19 00.52	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.10.19 00.52	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.10.19 00.52	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.10.19 00.52	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.10.19 00.52	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.10.19 00.52	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.10.19 00.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	87	%	70-130	10.10.19 00.52		
4-Bromofluorobenzene		460-00-4	116	%	70-130	10.10.19 00.52		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id: PH04

Matrix: Soil

Date Received: 10.08.19 08.47

Lab Sample Id: 639278-007

Date Collected: 10.07.19 12.00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: CHE

CHE

Date Prep: 10.08.19 15.35

Basis:

Wet Weight

Seq Number: 3103709

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.0	4.99	mg/kg	10.08.19 17.29		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM Seq Number: 3103874

Date Prep: 10.09.19 17.00

Basis: Wet Weight SUB: T104704400-19-19

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 10.10.19 01.28 U <49.8 49.8 mg/kg Diesel Range Organics (DRO) C10C28DRO 10.10.19 01.28 U <49.8 49.8 mg/kg 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 <49.8 49.8 10.10.19 01.28 U mg/kg 1 Total GRO-DRO PHC628 <49.8 49.8 mg/kg $10.10.19\ 01.28$ U Total TPH PHC635 <49.8 49.8 mg/kg 10.10.19 01.28 U 1 % Unite Analysis Data Coc Number I imita Flag

Surrogate	Cas Number	Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	103	%	70-135	10.10.19 01.28
o-Terphenyl	84-15-1	112	%	70-135	10.10.19 01.28



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id:

PH04

Matrix:

Soil

Date Received:10.08.19 08.47

Lab Sample Id: 639278-007

Date Collected: 10.07.19 12.00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B % Moisture:

Tech: Analyst: KTL

KTL

Seq Number: 3103920

Date Prep:

10.08.19 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.10.19 01.13	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.10.19 01.13	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.10.19 01.13	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	10.10.19 01.13	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.10.19 01.13	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	10.10.19 01.13	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	10.10.19 01.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	74	%	70-130	10.10.19 01.13		
4-Bromofluorobenzene		460-00-4	127	%	70-130	10.10.19 01.13		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

PH04A Sample Id:

Matrix: Soil Date Received:10.08.19 08.47

Lab Sample Id: 639278-008

Date Collected: 10.07.19 12.20

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

CHE

Basis:

Wet Weight

Analyst:

CHE Seq Number: 3103709

10.08.19 15.35 Date Prep:

SUB: T104704400-19-19

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 16.8 5.04 mg/kg 10.08.19 17.36

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

10.09.19 17.00 Date Prep:

Basis: Wet Weight

Seq Number: 3103874

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.10.19 01.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.10.19 01.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.10.19 01.49	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.10.19 01.49	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.10.19 01.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	10.10.19 01.49		
o-Terphenyl		84-15-1	113	%	70-135	10.10.19 01.49		

Seq Number: 3103920



Certificate of Analytical Results 639278

LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

PH04A Soil Sample Id: Matrix:

Date Received:10.08.19 08.47

Lab Sample Id: 639278-008 Date Collected: 10.07.19 12.20

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B Tech: KTL

% Moisture:

KTL Basis: Analyst: 10.08.19 16.00 Wet Weight Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.10.19 01.33	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.10.19 01.33	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.10.19 01.33	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.10.19 01.33	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.10.19 01.33	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.10.19 01.33	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.10.19 01.33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.10.19 01.33		
1,4-Difluorobenzene		540-36-3	78	%	70-130	10.10.19 01.33		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

PH05 Sample Id:

Matrix: Soil Date Received:10.08.19 08.47

Lab Sample Id: 639278-009

Date Collected: 10.07.19 12.05

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech:

CHE CHE

Date Prep:

Basis:

Wet Weight

Analyst: Seq Number: 3103709

10.08.19 15.35

SUB: T104704400-19-19

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 10.08.19 17.57 57.7 4.98 mg/kg

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

10.09.19 17.00 Date Prep:

Basis: Wet Weight

Seq Number: 3103874

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.10.19 02.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.10.19 02.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.10.19 02.09	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.10.19 02.09	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.10.19 02.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	10.10.19 02.09		
o-Terphenyl		84-15-1	116	%	70-135	10.10.19 02.09		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id: PH05

Matrix: Soil

Date Received:10.08.19 08.47

Lab Sample Id: 639278-009

Seq Number: 3103920

Date Collected: 10.07.19 12.05

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B % Moisture:

Tech:

KTL

% Moist

Analyst:

KTL

Date Prep: 10.08.19 16.00

Basis: Wet Weight SUB: T104704400-19-19

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.10.19 01.53	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.10.19 01.53	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.10.19 01.53	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.10.19 01.53	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.10.19 01.53	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.10.19 01.53	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.10.19 01.53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	10.10.19 01.53		
1,4-Difluorobenzene		540-36-3	85	%	70-130	10.10.19 01.53		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id: PH05A

Seq Number: 3103709

Matrix: Soil

Date Received:10.08.19 08.47

Lab Sample Id: 639278-010

Date Collected: 10.07.19 12.25

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep: 10.08.19 15.35

Basis: Wet Weight

SUB: T104704400-19-19

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 10.3
 5.00
 mg/kg
 10.08.19 18.03
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

Date Prep: 10.09.19 17.00

Basis: Wet Weight

Seq Number: 3103874

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.10.19 02.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.10.19 02.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.10.19 02.30	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.10.19 02.30	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.10.19 02.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	110	%	70-135	10.10.19 02.30		
o-Terphenyl		84-15-1	123	%	70-135	10.10.19 02.30		



LT Environmental, Inc., Arvada, CO

Corral Canyon CTB

Sample Id: PH05A

Matrix: Soil

Date Received:10.08.19 08.47

Lab Sample Id: 639278-010

Date Collected: 10.07.19 12.25

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B % Moisture:

Tech:

KTL

10.08.19 16.00 Basis:

Wet Weight

Analyst: KTL Seq Number: 3103920

Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.10.19 02.13	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.10.19 02.13	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.10.19 02.13	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.10.19 02.13	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.10.19 02.13	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.10.19 02.13	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.10.19 02.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	70-130	10.10.19 02.13		
4-Bromofluorobenzene		460-00-4	116	%	70-130	10.10.19 02.13		



Flagging Criteria

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

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

Flag

Flag



QC Summary 639278

LT Environmental, Inc.

Corral Canyon CTB

Analytical Method: Chloride by EPA 300

3103709 Seq Number:

Matrix: Solid

Date Prep: 10.08.19

Prep Method:

E300P

LCS Sample Id: 7687719-1-BKS LCSD Sample Id: 7687719-1-BSD MB Sample Id: 7687719-1-BLK

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

Chloride < 0.858 250 252 101 255 102 90-110 10.08.19 15:46 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3103709 Matrix: Soil

E300P Prep Method:

Date Prep: 10.08.19

MS Sample Id: 639154-009 S MSD Sample Id: 639154-009 SD Parent Sample Id: 639154-009

MS %RPD RPD Limit Units **Parent** Spike MS MSD MSD Limits Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Date Chloride 128 251 378 100 368 96 90-110 3 20 mg/kg 10.08.19 16:07

Analytical Method: Chloride by EPA 300

Seq Number: 3103709

Matrix: Soil

Prep Method: Date Prep:

E300P

10.08.19

Parent Sample Id: 639278-008

MS Sample Id: 639278-008 S MSD Sample Id: 639278-008 SD

Spike MS MS Limits %RPD RPD Limit Units Analysis Parent MSD MSD **Parameter** Flag Result Amount Result %Rec Result %Rec Date Chloride 10.08.19 17:43 168 252 267 99 267 99 90-110 20 mg/kg

Analytical Method: TPH by SW8015 Mod

Prep Method:

SW8015P

3103874 Matrix: Solid Seq Number: Date Prep: 10.09.19

LCS Sample Id: 7687818-1-BKS LCSD Sample Id: 7687818-1-BSD MB Sample Id: 7687818-1-BLK

MB LCS LCS %RPD RPD Limit Units Spike LCSD LCSD Limits Analysis **Parameter** Result Result Amount %Rec Date Result %Rec 1000 10.09.19 21:59 Gasoline Range Hydrocarbons (GRO) <15.0 1160 116 1190 119 70-135 3 20 mg/kg 10.09.19 21:59 2 Diesel Range Organics (DRO) <15.0 1200 120 1180 70-135 20 1000 118 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate Date Flag %Rec Flag Flag %Rec %Rec 107 10.09.19 21:59 1-Chlorooctane 99 111 70-135 % 10.09.19 21:59 o-Terphenyl 106 116 108 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3103874

Matrix: Solid

Prep Method: Date Prep: SW8015P

10.09.19

MB Sample Id: 7687818-1-BLK

MB **Parameter** Result

Units

Analysis Flag Date

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

10.09.19 21:39

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

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

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

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

= MSD/LCSD Result

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

Parent Sample Id:

Flag

Flag



QC Summary 639278

LT Environmental, Inc.

Corral Canyon CTB

Analytical Method: TPH by SW8015 Mod

3103874

639278-001

Prep Method: SW8015P

Date Prep: 10.09.19

MSD Sample Id: 639278-001 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)	<15.0	999	1100	110	1130	113	70-135	3	20	mg/kg	10.09.19 23:02
Diesel Range Organics (DRO)	<15.0	999	1130	113	1150	115	70-135	2	20	mg/kg	10.09.19 23:02

Matrix: Soil

MS Sample Id: 639278-001 S

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		106		70-135	%	10.09.19 23:02
o-Terphenyl	104		109		70-135	%	10.09.19 23:02

Analytical Method: BTEX by EPA 8021B

3103920 Seq Number:

MB Sample Id:

7687715-1-BLK

Matrix: Solid

LCS Sample Id: 7687715-1-BKS

SW5030B Prep Method: Date Prep:

10.08.19

LCSD Sample Id: 7687715-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	
Benzene	< 0.00200	0.100	0.102	102	0.104	104	70-130	2	35	mg/kg	10.10.19 14:10	
Toluene	< 0.00200	0.100	0.0967	97	0.100	100	70-130	3	35	mg/kg	10.10.19 14:10	
Ethylbenzene	< 0.00200	0.100	0.102	102	0.107	107	70-130	5	35	mg/kg	10.10.19 14:10	
m,p-Xylenes	< 0.00400	0.200	0.201	101	0.212	106	70-130	5	35	mg/kg	10.10.19 14:10	
o-Xylene	< 0.00200	0.100	0.104	104	0.111	111	70-130	7	35	mg/kg	10.10.19 14:10	
Summa anto	MB	MB	L	CS I	.cs	LCSI	D LCS	D L	imits	Units	Analysis	

Surrogate %Rec Flag %Rec Flag %Rec Flag	Date
1,4-Difluorobenzene 88 92 92 70-130 %	10.10.19 14:10
4-Bromofluorobenzene 99 102 107 70-130 %	10.10.19 14:10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3103920 Parent Sample Id:

639278-001

Matrix: Soil MS Sample Id: 639278-001 S Prep Method: Date Prep: SW5030B 10.08.19

MSD Sample Id: 639278-001 SD

%RPD RPD Limit Units **Parent** Spike MS MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec 10.10.19 14:50 Benzene < 0.00198 0.0992 0.0938 95 0.0691 69 70-130 30 35 X mg/kg Toluene 0.0821 83 0.0598 10.10.19 14:50 X < 0.00198 0.0992 70-130 31 35 60 mg/kg Ethylbenzene 78 0.0498 43 10.10.19 14:50 XF < 0.00198 0.0992 0.0769 50 70-130 35 mg/kg m,p-Xylenes 75 0.0947 47 70-130 45 35 10.10.19 14:50 XF < 0.00397 0.198 0.149 mg/kg 82 10.10.19 14:50 o-Xylene < 0.00198 0.0992 0.0809 0.0553 55 70-130 38 35 mg/kg XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		84		70-130	%	10.10.19 14:50
4-Bromofluorobenzene	107		106		70-130	%	10.10.19 14:50

E = MSD/LCSD Result

XENCO

Chain of Custody

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

Work Order No: 639278

,	Probert I'lls	Relinquished by: (Signature)		woulder signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not applicant Those terms will be	Circle Method(s) an	Total 200.7 / 6010	PHOSA	PHOS	KHOHA	PHOY	PHO3A	PH63	PHOZA	PH02	PHOIA	PHO!	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Rob	P.O. Number:	Project Number:	Project Name:	Phone: 432	City, State ZIP: Mic	Address: 330	Company Name: LT	Project Manager: Da
	Mr Ch			and relinquishment of sam and for the cost of samples ar \$75.00 will be applied to each	Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020:	4									5 16	Matrix	Ø	63	Wes No	\(\frac{1}{2}\)	Temp Blank:	Robert McAfee	2RP-5466	012919117	Corral Canyon	432.704.5178	Midland, TX 79705	3300 North A Street	LT Environmental, Inc., P	Dan Moir
	uu	Received by: (Signature)	Training a country of	nples constitutes a valid pu nd shall not assume any re n project and a charge of \$5	zed TCLP / SPL	8	1225	1220	1205	1206	1135	1130	1115	1110	1100	10/07/19 1055	Date Time Sampled Sampled	Total Containers:	Factor	T-NN- T	Thermometer ID	(Ves No Wet Ice:	Due	Rush:	Routine	c78 T	Emai			Permian office	
	8101		militare ampliment	rchase order from client on sponsibility for any losses for each sample submitted.	TCLP / SPLP 6010: 8RCRA	- 1	2'	11	21	11	21	1'	2'	1/	2'	1' 1	Depth Number	03	102	46		·· Yes No	Due Date:	h: 24hr	tine	Turn Around	Email: dmoir@ltenv.com rmcafee@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
6 4	th:8 61	Date/Time	ed to Aerico, but not anal	company to Xenco, its affi s or expenses incurred b	Sb As Ba Be Cd	Sb As Ba Be B	×	× × ×	× × ×	-	× × ×	× × ×	×	×	××	X	TPH (EF BTEX (E	PA 0	=802								rmcafee@ltenv.co	Carlsbad, NM		XTO-Energy	Kyle Littrel
		Relinquished by: (Signature)	lyzed. These terms will be enforced unle	woulder 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 of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$76.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be affected to the control of	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Cd Ca Cr Co Cu Fe																				ANALYSIS REQUEST	om				Bill to: (if different) Kyle Littrel
		Received by: (Signature)	enforced unless previously negotiated.	s. It assigns standard terms and conditions are due to circumstances beyond the control		Pb Mg Mn Mo Ni K Se Ag Si																				ST	Deliverables: EDD	Reporting:Level II		Program: UST/PST PRP	
		gnature) Date/Time			631 / 245.1 / 7470 /	SiO2 Na Sr Tl Sn U V Zn	4								0,000,00	discordo	Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm								Work Order Notes	ADaPT Other:	□ST/UST □RRP □bvel IV	[PRP Brownfields RC uperfund	Work Order Comments

Inter-Office Shipment



Page 1 of 2

IOS Number 49575

Date/Time: 10/08/19 10:02

Created by: Elizabeth Mcclellan

Please send report to: Jessica Kramer

Lab# From: Carlsbad

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: Midland

Air Bill No.:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
639278-001	S	PH01	10/07/19 10:55	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-001	S	PH01	10/07/19 10:55	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	
639278-001	S	PH01	10/07/19 10:55	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-002	S	PH01A	10/07/19 11:00	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-002	S	PH01A	10/07/19 11:00	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-002	S	PH01A	10/07/19 11:00	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	
639278-003	S	PH02	10/07/19 11:10	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-003	S	PH02	10/07/19 11:10	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-003	S	PH02	10/07/19 11:10	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	
639278-004	S	PH02A	10/07/19 11:15	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-004	S	PH02A	10/07/19 11:15	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	
639278-004	S	PH02A	10/07/19 11:15	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-005	S	PH03	10/07/19 11:30	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-005	S	PH03	10/07/19 11:30	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	
639278-005	S	PH03	10/07/19 11:30	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-006	S	PH03A	10/07/19 11:35	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-006	S	PH03A	10/07/19 11:35	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-006	S	PH03A	10/07/19 11:35	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	
639278-007	S	PH04	10/07/19 12:00	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-007	S	PH04	10/07/19 12:00	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-007	S	PH04	10/07/19 12:00	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	
639278-008	S	PH04A	10/07/19 12:20	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-008	S	PH04A	10/07/19 12:20	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-008	S	PH04A	10/07/19 12:20	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	
639278-009	S	PH05	10/07/19 12:05	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	

Inter-Office Shipment



Page 2 of 2

IOS Number 49575

Date/Time: 10/08/19 10:02

Created by: Elizabeth Mcclellan

Jessica Kramer Please send report to:

Lab# From: Carlsbad

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: Midland

Air Bill No.:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
639278-009	S	PH05	10/07/19 12:05	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-009	S	PH05	10/07/19 12:05	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-010	S	PH05A	10/07/19 12:25	SW8021B	BTEX by EPA 8021B	10/09/19	10/21/19	JKR	BR4FBZ BZ BZME EBZ X	
639278-010	S	PH05A	10/07/19 12:25	E300_CL	Chloride by EPA 300	10/09/19	04/04/20	JKR	CL	
639278-010	S	PH05A	10/07/19 12:25	SW8015MOD_NM	TPH by SW8015 Mod	10/09/19	10/21/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Relinquished By:

Date Relinquished: 10/08/2019

Received By:

Date Received: <u>10/08/2019 13:45</u>

Cooler Temperature: 0.4



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 49575

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

Temperature Measuring device used: R8

Sent By:	Elizabeth McClellan	Date Sent:	10/08/2019 10:02 AM
Received By:	Brianna Teel	Date Received:	10/08/2019 01:45 PM

Received By: Brianna Teel	Date Received: 10/08/2019	01:45 PM	
	Sample Receipt Chec	klist	Comments
#1 *Temperature of cooler(s)?		.4	
#2 *Shipping container in good condition	on?	Yes	
#3 *Samples received with appropriate	temperature?	Yes	
#4 *Custody Seals intact on shipping of	container/ cooler?	Yes	
#5 *Custody Seals Signed and dated f	or Containers/coolers	Yes	
#6 *IOS present?		Yes	
#7 Any missing/extra samples?		No	
#8 IOS agrees with sample label(s)/ma	atrix?	Yes	
#9 Sample matrix/ properties agree wi	th IOS?	Yes	
#10 Samples in proper container/ bottl	e?	Yes	
#11 Samples properly preserved?		Yes	
#12 Sample container(s) intact?		Yes	
#13 Sufficient sample amount for indic	ated test(s)?	Yes	
#14 All samples received within hold to	me?	Yes	
* Must be completed for after-hours of NonConformance:	elivery of samples prior to p	lacing in the refrigerator	
Corrective Action Taken:			
	Nonconformance Doc	cumentation	
Contact:	Contacted by :	Date:	
Checklist reviewed by:	Britanna Teel	Date: <u>10/08/2019</u>	



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 10/08/2019 08:47:00 AM

Work Order #: 639278

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

Temperature Measuring device used: T-NM-007

Date: 10/08/2019

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3.2	
#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	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		Yes	Subbed to Midland
#18 Water VOC samples have zero headsp	ace?	N/A	

Analyst:	PH Device/Lot#:				
	Checklist completed by:	Elizabeth McClellan	Date: <u>10/08/2019</u>		
	Charlist reviewed by	Passion Wagmer			

Jessica Kramer

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