LT Environmental, Inc.
3300 North A Street, Building 1, #103
Midland, Texas 79705
T 432.704.5178 / F 432.704.5179

September 6, 2018

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

RE: Closure Request
Poker Lake Unit (PLU) #151
Remediation Permit Number 2RP-3439
Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following letter report detailing excavation and confirmation soil sampling activities at the PLU #151 (Site) in Unit Letter B, Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the excavation and soil sampling activities was to address impact to soil after fluid was released from a corroded swedge. The release of approximately 7 barrels (bbls) of produced water was discovered on December 7, 2015. Most of the release remained on the well pad, with the exception of 1.1 bbls that flowed off of the north side of the pad. No free-standing liquids were recovered. The failed swedge and connections were replaced with stainless steel parts. The former operator reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on December 8, 2015, and was assigned Remediation Permit Number (RP) 2RP-3439. Although the release occurred while the facility was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved. Based on the results of the confirmation sampling event conducted after impacted soil was removed, XTO is requesting no further action for this release event.

BACKGROUND

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well is C 02108, located approximately 1.59 miles southeast of the Site, with a depth to groundwater of 186 feet bgs and a total depth of 200 feet bgs. The closest surface water to the Site is an unnamed arroyo located approximately 412 feet northwest of the Site. The Site is greater than 200 feet from any private domestic water source and greater than 1,000 feet from a water source. Based on these criteria, the NMOCD site ranking for remediation action levels is 10, and the following remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 1,000 mg/kg total petroleum

hydrocarbons (TPH). Based on standard practice in this region, LTE proposes a site-specific chloride action level of 600 mg/kg or within 10 percent (%) of the background concentrations.

EXCAVATION ACTIVITIES

Nine initial soil samples (SS01, SS02, SS03, SS04, SS05, SS06, SS07, SS08, and SS09) were collected between 0.5 foot and 1-foot bgs on the well pad and in the adjoining pasture to assess and delineate impacted soil. Based on the analytical results from SS01, SS03, and SS04, which exceeded site-specific remediation action levels, LTE excavated impacted soil on the well pad. Excavation activities within the release footprint commenced on June 26, 2018, and concluded on June 28, 2018. LTE observed surficial soil staining around the wellhead and extending toward the northwest corner of the well pad. To direct excavation activities, LTE screened soil samples for chloride using Hach® chloride QuanTab® test strips and for volatile aromatic hydrocarbons using a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp in accordance with the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, August 13, 1993.

The final excavation was approximately 8,400 square feet in area with a depth of approximately 2.5 feet bgs throughout the excavation. The horizontal extent of the excavation was approximately 108 feet by 78 feet and is illustrated on Figure 2. Approximately 480 cubic yards of impacted soil were removed using a trackhoe, loader, and hydro-vacuum. Impacted soil was transported and properly disposed of at Lea Land Landfill in Eunice, New Mexico, and R360 in Hobbs, New Mexico.

SOIL SAMPLING

LTE collected discrete confirmation samples from the sidewalls and floor of the excavation to monitor excavation progress and document removal of impacted soil. Three floor samples (FS01, FS02, and FS03) were collected within the excavation at 2.5 feet bgs. The sidewall samples (SW01, SW02, SW03, SW04, SW05, SW06, SW07, SW08, and SW09) were collected to represent approximately every 50 feet in lateral length of the sidewall or in areas that were discolored. Depths and locations of sidewall samples varied based on field observations by the on-site geologist in an attempt to accurately represent actual soil conditions within and around the excavation.

All soil samples were collected and placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis, and immediately placed on ice. The soil samples were shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Xenco Laboratories in Midland, Texas, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO) by USEPA Method 8015M, and chloride by USEPA Method 300.

ANALYTICAL RESULTS

Laboratory analytical results indicated that initial soil samples SS01, SS03, and SS01 exceeded the NMOCD remediation action levels. Upon excavation of the impacted soil, laboratory analytical results for the final confirmation soil samples (SW01 through SW09, and FS01, FS02, and FS03) indicated that BTEX, TPH, and chloride concentrations were compliant with the NMOCD site-specific remediation action levels. LTE ultimately collected eighteen final surficial, sidewall, and floor soil samples (SS02, SS05, SS06, SS07, SS08, SS09, SW01, SW02, SW03, SW04, SW05, SW06, SW07, SW08, SW09, FS01, FS02, and FS03) for release delineation and confirmation that impacted soil was removed from the excavation. Laboratory analytical results are presented on Figure 2, summarized in Table 2, and the complete laboratory analytical reports are included as Attachment 2.

CONCLUSIONS

The impacted soil was excavated and laboratory analytical results for the confirmation soil samples collected from the final excavation extent indicate that BTEX, TPH, and chloride concentrations are compliant with NMOCD site-specific remediation action levels. XTO has successfully removed the impacted soil at the Site and requests no further action for this release. An updated NMOCD Form C-141 is included with Attachment 1.

If you have any questions or comments, please do not hesitate to contact Adrian Baker at (432) 887-1255 or abaker@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Adrian Baker
Project Geologist

Ashley L. Ager, P.G.
Senior Geologist

cc: Kyle Littrell, XTO
Maria Pruett, NMOCD
Jim Amos, BLM
Shelly Tucker, BLM

Attachments:
Figure 1 - Site Location Map
Figure 2 - Soil Sample Locations
Table 1 - Soil Analytical Results
Attachment 1 - Initial/Final NMOCD Form C-141 (2RP-3439)
Attachment 2 - Laboratory Analytical Reports

LEGEND

SITE LOCATION

IMAGE COURTESY OF ESRI/USGS

0 2,000 4,000

Feet

N

NEW MEXICO

NOTE: REMEDIATION PERMIT NUMBER 2RP-3439

FIGURE 1
SITE LOCATION MAP
PLU 151
UNIT B SEC 6 T24S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918044_PLU 151\012918044_FIG01_SL_2018.mxd

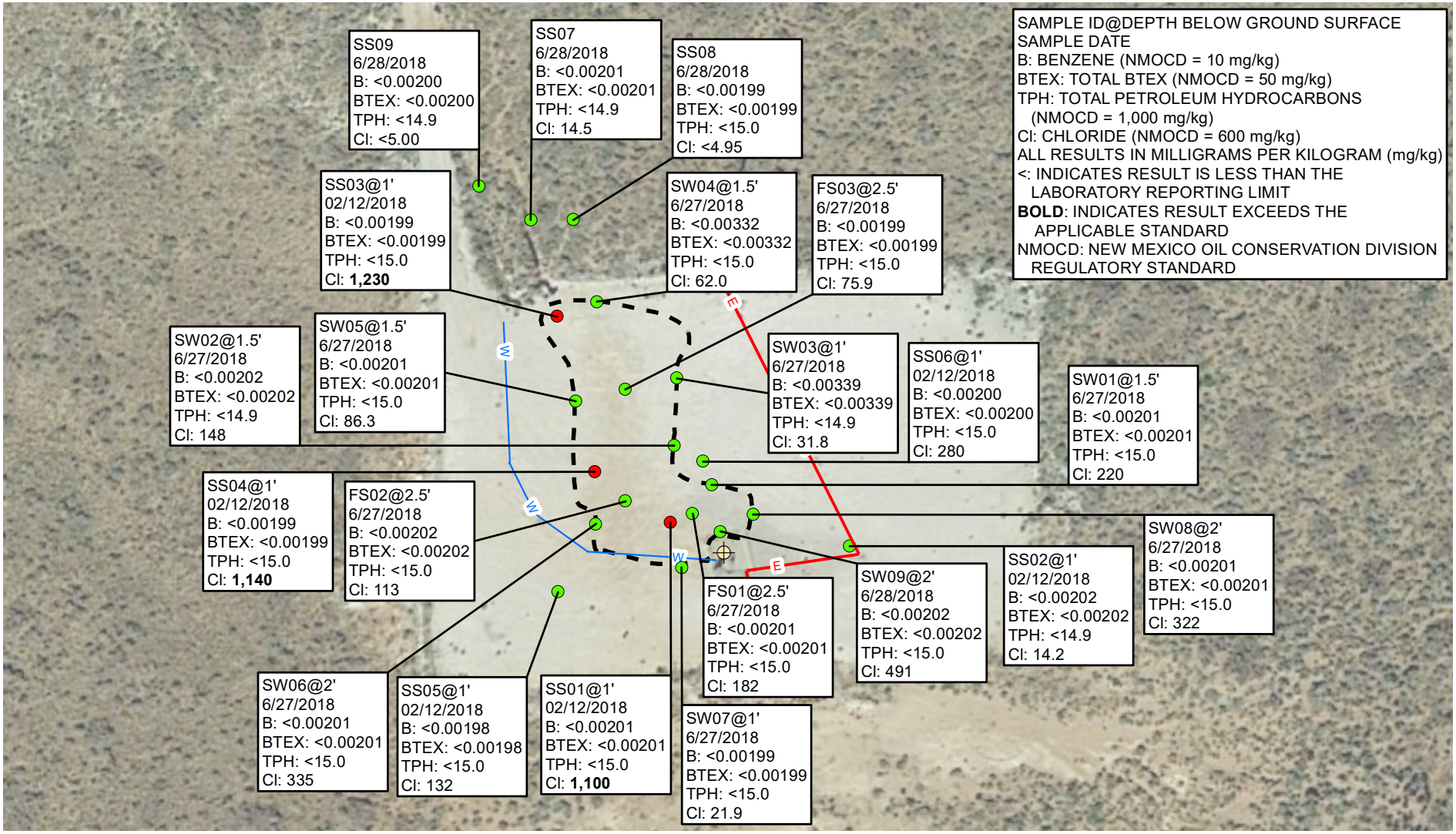

IMAGE COURTESY OF GOOGLE EARTH 2017

LEGEND

- PRELIMINARY SOIL SAMPLE
- FINAL CONFIRMATION SOIL SAMPLE
- PLUGGED AND ABANDONED WELLHEAD
- E — ELECTRICAL LINE (DEAD)
- W — WATER LINE (CAPPED)
- EXCAVATION EXTENT

0 60 120
Feet

N

NOTE: REMEDIATION PERMIT NUMBER 2RP-3439

FIGURE 2
SOIL SAMPLE LOCATIONS
PLU 151
UNIT B SEC 6 T24S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918044_PLU 151\012918044_FIG02_SITE_2018_3439.mxd

TABLE 1
SOIL ANALYTICAL RESULTS
PLU #151
REMEDIATION PERMIT NUMBER 2RP-3439
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-C40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	1	2/12/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	**1,100**
SS02	1	2/12/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<14.9	<14.9	<14.9	<14.9	14.2
SS03	1	2/12/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	**1,230**
SS04	1	2/12/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	**1,140**
SS05	1	2/12/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	132
SS06	1	2/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	280
FS01	2.5	6/27/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	182
FS02	2.5	6/27/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	113
FS03	2.5	6/27/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	75.9
SW01	1.5	6/27/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	220
SW02	1.5	6/27/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<14.9	<14.9	<14.9	<14.9	148
SW03	1	6/27/2018	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<14.9	<14.9	<14.9	<14.9	31.8
SW04	1.5	6/27/2018	<0.00332	<0.00332	<0.00332	<0.00332	<0.00332	<15.0	<15.0	<15.0	<15.0	62.0
SW05	1.5	6/27/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	86.3
SW06	2	6/27/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	335
SW07	1	6/27/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	21.9
SW08	2	6/27/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	322
SS07	0.5	6/28/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	14.5
SS08	0.5	6/28/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<4.95
SS09	0.5	6/28/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<5.00
SW09	2	6/28/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	491
NMOCD Remediation Action Levels			10	NE	NE	NE	50	NE	NE	NE	1,000	600

Notes:
bgs - below ground surface
BTEX - benzene, toluene, ethylbenzene, and total xylenes
mg/kg - milligrams per kilogram
NE - not established
NMOCD - New Mexico Oil Conservation Division
TPH - total petroleum hydrocarbons
< - indicates result is below laboratory reporting limits
Bold indicates result exceeds the applicable regulatory standard.

ATTACHMENT 1: INITIAL/FINAL NMOCD FORM C-141 (2RP-3439)

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 08 2015
RECEIVED

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1534455140

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. 260737	Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU 151	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner:	API No. 3001531595

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	6	24s	30E	510		1980		Eddy

Latitude: 32.25264 **Longitude:** 103.91865

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 7 barrels PW	Volume Recovered: None
Source of Release: Corrosion to 2x1 swedge	Date and Hour of Occurrence: 12-7-15 @ 3:00pm	Date and Hour of Discovery 12-7-15 @ 3:38pm
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

BOPCO EHS was notified of a release that occurred when a hole developed in a 2x1 swedge caused by corrosion. A vacuum truck was called but no fluid was able to be recovered. The majority of the fluid stayed on the well pad with the exception of 1.1 barrels ran off the north side of the pad.

Describe Area Affected and Cleanup Action Taken.*

A vacuum truck was called but no fluid was able to be recovered. The majority of the fluid stayed on the well pad with the exception of 1.1 barrels ran off the north side of the pad. The failed swedge and connections were replaced with HP stainless steel.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Bradley Blevins

Printed Name: Bradley Blevins

Title: Assistant Remediation Foreman

E-mail Address: bblevins@basspet.com

Date: 12-8-15 Phone: 432-214-3704

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By

Approval Date: 12/10/15 Expiration Date: N/A

Conditions of Approval: Attached ☐

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 1/15/16

2RP-3439

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company XTO Energy	Contact Kyle Littrell
Address 3104 E Greene Street Carlsbad, N.M. 88220	Telephone No. 432-221-7331
Facility Name PLU 151	Facility Type Exploration and Production

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-31595

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	6	24S	30E	510	North	1980	East	Eddy

Latitude N 32.25264 **Longitude** -103.91865 NAD83

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 7 bbls PW	Volume Recovered 0 bbls
Source of Release Corrosion to 2x1 swedge	Date and Hour of Occurrence 12-7-15 @ 3:00pm	Date and Hour of Discovery 12-7-15 @ 3:38 pm
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom? Amy Ruth	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*
BOPCO EHS was notified of the release that occurred when a hole developed in a 2x1 swedge caused by corrosion. A vacuum truck was called but no fluid was able to be recovered. The majority of the fluid stayed on the well pad with the exception of 1.1 barrels ran off the north side of the pad.

Describe Area Affected and Cleanup Action Taken.*
The majority of the fluid stayed on the well pad with the exception of 1.1 barrels ran off the the north side of the pad. The failed swedge and connections were replaced with HP stainless steel.

The impacted soil was excavated, and confirmation soil samples were collected from the side walls and bottom of the excavation on February 12, 2018, June 27, 2018 and June 28, 2018. Laboratory analytical results from 18 confirmation soil samples indicate concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation action levels. Based on the results of confirmation samples, XTO requests no further action for this release and will backfill with clean caliche and re-contour.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Kyle Littrell	Approved by Environmental Specialist:	
Title: SH&E Coordinator	Approval Date:	Expiration Date:
E-mail Address: Kyle_Littrell@xtoenergy.com	Conditions of Approval:	Attached ☐
Date: 8/27/2018 Phone: 432-221-7331		

* Attach Additional Sheets If Necessary

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS

Analytical Report 576509

for

LT Environmental, Inc.

Project Manager: Adrian Baker

PLU 151

22-FEB-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

22-FEB-18

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

Reference: XENCO Report No(s): **576509**
PLU 151
Project Address: NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 576509. 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. 576509 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 Kramer
Odessa Laboratory Director

Sample Cross Reference 576509

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	02-12-18 11:45	12 In	576509-001
SS02	S	02-12-18 11:50	12 In	576509-002
SS03	S	02-12-18 12:00	12 In	576509-003
SS04	S	02-12-18 12:15	12 In	576509-004
SS05	S	02-12-18 12:30	12 In	576509-005
SS06	S	02-12-18 12:40	12 In	576509-006

Client Name: LT Environmental, Inc.
Project Name: PLU 151

Project ID:
Work Order Number(s): *576509*

Report Date: *22-FEB-18*
Date Received: *02/14/2018*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-3041711 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 576509

LT Environmental, Inc., Arvada, CO

Project Name: PLU 151

Project Id:
Contact: Adrian Baker
Project Location: NM

Date Received in Lab: Wed Feb-14-18 06:00 pm
Report Date: 22-FEB-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	576509-001		576509-002		576509-003		576509-004		576509-005		576509-006	
	Field Id:	SS01		SS02		SS03		SS04		SS05		SS06	
	Depth:	12- In		12- In		12- In		12- In		12- In		12- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-12-18 11:45		Feb-12-18 11:50		Feb-12-18 12:00		Feb-12-18 12:15		Feb-12-18 12:30		Feb-12-18 12:40	
BTEX by EPA 8021B	***Extracted:***	Feb-16-18 10:00		Feb-16-18 10:00		Feb-16-18 10:00		Feb-16-18 10:00		Feb-16-18 10:00		Feb-16-18 10:00	
	Analyzed:	Feb-17-18 17:12		Feb-17-18 18:24		Feb-17-18 18:07		Feb-17-18 18:43		Feb-17-18 19:01		Feb-17-18 19:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200
Toluene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes		<0.00402	0.00402	<0.00403	0.00403	<0.00398	0.00398	<0.00398	0.00398	<0.00396	0.00396	<0.00401	0.00401
o-Xylene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200
Total BTEX		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	Feb-21-18 14:00		Feb-21-18 14:00		Feb-21-18 14:00		Feb-21-18 14:00		Feb-21-18 14:00		Feb-21-18 14:00	
	Analyzed:	Feb-22-18 02:53		Feb-22-18 03:15		Feb-22-18 03:22		Feb-22-18 03:29		Feb-22-18 03:37		Feb-22-18 03:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1100	24.5	14.2	4.91	1230	98.2	1140	100	132	25.0	280	24.6
TPH by SW8015 Mod	***Extracted:***	Feb-18-18 14:00		Feb-18-18 14:00		Feb-18-18 14:00		Feb-18-18 14:00		Feb-18-18 14:00		Feb-18-18 14:00	
	Analyzed:	Feb-19-18 03:08		Feb-19-18 03:29		Feb-19-18 03:51		Feb-19-18 04:13		Feb-19-18 04:33		Feb-19-18 05:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

Jessica Kramer
Odessa Laboratory Director

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-001	Date Collected:	02.12.18 11.45	Sample Depth:	12 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	LRI			% Moisture:	
Analyst:	AMB	Date Prep:	02.21.18 14.00	Basis:	Wet Weight
Seq Number:	3041796				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1100**	24.5	mg/kg	02.22.18 02.53		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	02.18.18 14.00	Basis:	Wet Weight
Seq Number:	3041598				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.19.18 03.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.19.18 03.08	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.19.18 03.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.19.18 03.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	02.19.18 03.08	
o-Terphenyl	84-15-1	107	%	70-135	02.19.18 03.08	

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LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-001	Date Collected:	02.12.18 11.45	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	02.16.18 10.00	Basis:	Wet Weight
Seq Number:	3041711				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.17.18 17.12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.17.18 17.12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.17.18 17.12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.17.18 17.12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.17.18 17.12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.17.18 17.12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.17.18 17.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	80-120	02.17.18 17.12	
1,4-Difluorobenzene	540-36-3	81	%	80-120	02.17.18 17.12	

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LT Environmental, Inc., Arvada, CO

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Sample Id:	**SS02**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-002	Date Collected:	02.12.18 11.50	Sample Depth:	12 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	LRI			% Moisture:	
Analyst:	AMB	Date Prep:	02.21.18 14.00	Basis:	Wet Weight
Seq Number:	3041796				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.2**	4.91	mg/kg	02.22.18 03.15		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	02.18.18 14.00	Basis:	Wet Weight
Seq Number:	3041598				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	02.19.18 03.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	02.19.18 03.29	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	02.19.18 03.29	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	02.19.18 03.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	02.19.18 03.29	
o-Terphenyl	84-15-1	113	%	70-135	02.19.18 03.29	

Certificate of Analytical Results 576509

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-002	Date Collected:	02.12.18 11.50	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	02.16.18 10.00	Basis:	Wet Weight
Seq Number:	3041711				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.17.18 18.24	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.17.18 18.24	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.17.18 18.24	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.17.18 18.24	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.17.18 18.24	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.17.18 18.24	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.17.18 18.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	82	%	80-120	02.17.18 18.24	
4-Bromofluorobenzene	460-00-4	118	%	80-120	02.17.18 18.24	

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-003	Date Collected:	02.12.18 12.00	Sample Depth:	12 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	LRI			% Moisture:	
Analyst:	AMB	Date Prep:	02.21.18 14.00	Basis:	Wet Weight
Seq Number:	3041796				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1230**	98.2	mg/kg	02.22.18 03.22		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	02.18.18 14.00	Basis:	Wet Weight
Seq Number:	3041598				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.19.18 03.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.19.18 03.51	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.19.18 03.51	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.19.18 03.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	02.19.18 03.51	
o-Terphenyl	84-15-1	105	%	70-135	02.19.18 03.51	

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LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-003	Date Collected:	02.12.18 12.00	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	02.16.18 10.00	Basis:	Wet Weight
Seq Number:	3041711				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.17.18 18.07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.17.18 18.07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.17.18 18.07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.17.18 18.07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.17.18 18.07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.17.18 18.07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.17.18 18.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	80-120	02.17.18 18.07	
1,4-Difluorobenzene	540-36-3	82	%	80-120	02.17.18 18.07	

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-004	Date Collected:	02.12.18 12.15	Sample Depth:	12 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	LRI			% Moisture:	
Analyst:	AMB	Date Prep:	02.21.18 14.00	Basis:	Wet Weight
Seq Number:	3041796				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1140**	100	mg/kg	02.22.18 03.29		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	02.18.18 14.00	Basis:	Wet Weight
Seq Number:	3041598				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.19.18 04.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.19.18 04.13	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.19.18 04.13	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.19.18 04.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.19.18 04.13	
o-Terphenyl	84-15-1	101	%	70-135	02.19.18 04.13	

Certificate of Analytical Results 576509

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-004	Date Collected:	02.12.18 12.15	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	02.16.18 10.00	Basis:	Wet Weight
Seq Number:	3041711				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.17.18 18.43	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.17.18 18.43	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.17.18 18.43	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.17.18 18.43	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.17.18 18.43	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.17.18 18.43	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.17.18 18.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	80-120	02.17.18 18.43	
1,4-Difluorobenzene	540-36-3	85	%	80-120	02.17.18 18.43	

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LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS05**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-005	Date Collected:	02.12.18 12.30	Sample Depth:	12 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	LRI			% Moisture:	
Analyst:	AMB	Date Prep:	02.21.18 14.00	Basis:	Wet Weight
Seq Number:	3041796				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**132**	25.0	mg/kg	02.22.18 03.37		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	02.18.18 14.00	Basis:	Wet Weight
Seq Number:	3041598				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.19.18 04.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.19.18 04.33	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.19.18 04.33	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.19.18 04.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	02.19.18 04.33	
o-Terphenyl	84-15-1	104	%	70-135	02.19.18 04.33	

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LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS05**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-005	Date Collected:	02.12.18 12.30	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	02.16.18 10.00	Basis:	Wet Weight
Seq Number:	3041711				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.17.18 19.01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.17.18 19.01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.17.18 19.01	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	02.17.18 19.01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.17.18 19.01	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.17.18 19.01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.17.18 19.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	86	%	80-120	02.17.18 19.01	
4-Bromofluorobenzene	460-00-4	112	%	80-120	02.17.18 19.01	

Certificate of Analytical Results 576509

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-006	Date Collected:	02.12.18 12.40	Sample Depth:	12 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	LRI			% Moisture:	
Analyst:	AMB	Date Prep:	02.21.18 14.00	Basis:	Wet Weight
Seq Number:	3041796				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**280**	24.6	mg/kg	02.22.18 03.44		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	02.18.18 14.00	Basis:	Wet Weight
Seq Number:	3041598				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.19.18 05.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.19.18 05.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.19.18 05.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.19.18 05.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	02.19.18 05.36	
o-Terphenyl	84-15-1	115	%	70-135	02.19.18 05.36	

Certificate of Analytical Results 576509

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	02.14.18 18.00
Lab Sample Id:	576509-006	Date Collected:	02.12.18 12.40	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	02.16.18 10.00	Basis:	Wet Weight
Seq Number:	3041711				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.17.18 19.20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.17.18 19.20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.17.18 19.20	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.17.18 19.20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.17.18 19.20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.17.18 19.20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.17.18 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	80-120	02.17.18 19.20	
1,4-Difluorobenzene	540-36-3	86	%	80-120	02.17.18 19.20	

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

+ NELAC certification not offered for this compound.

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

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4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282	(602) 437-0330	

QC Summary 576509

LT Environmental, Inc.

PLU 151

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3041796 Matrix: Solid Date Prep: 02.21.18
MB Sample Id: 7639569-1-BLK LCS Sample Id: 7639569-1-BKS LCSD Sample Id: 7639569-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	259	250	259	104	259	104	90-110	0	20	mg/kg	02.22.18 01:54	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3041796 Matrix: Soil Date Prep: 02.21.18
Parent Sample Id: 576508-001 MS Sample Id: 576508-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	23.9	248	291	108	90-110	mg/kg	02.22.18 02:16	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3041796 Matrix: Soil Date Prep: 02.21.18
Parent Sample Id: 576512-001 MS Sample Id: 576512-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	1780	2430	2910	47	90-110	mg/kg	02.22.18 03:59	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3041598 Matrix: Solid Date Prep: 02.18.18
MB Sample Id: 7639461-1-BLK LCS Sample Id: 7639461-1-BKS LCSD Sample Id: 7639461-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1020	102	1010	101	70-135	1	35	mg/kg	02.19.18 00:05	
Diesel Range Organics (DRO)	<15.0	1000	893	89	866	87	70-135	3	35	mg/kg	02.19.18 00:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		101		103		70-135	%	02.19.18 00:05
o-Terphenyl	105		103		99		70-135	%	02.19.18 00:05

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

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

QC Summary 576509

LT Environmental, Inc.

PLU 151

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3041598 Matrix: Soil Date Prep: 02.18.18
Parent Sample Id: 576507-002 MS Sample Id: 576507-002 S MSD Sample Id: 576507-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	1070	107	1130	113	70-135	5	35	mg/kg	02.19.18 01:27	
Diesel Range Organics (DRO)	<15.0	997	975	98	1080	108	70-135	10	35	mg/kg	02.19.18 01:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		118		70-135	%	02.19.18 01:27
o-Terphenyl	114		117		70-135	%	02.19.18 01:27

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3041711 Matrix: Solid Date Prep: 02.16.18
MB Sample Id: 7639451-1-BLK LCS Sample Id: 7639451-1-BKS LCSD Sample Id: 7639451-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0884	88	0.0915	92	70-130	3	35	mg/kg	02.17.18 12:35	
Toluene	<0.00202	0.101	0.0901	89	0.0914	91	70-130	1	35	mg/kg	02.17.18 12:35	
Ethylbenzene	<0.00202	0.101	0.0939	93	0.0952	95	71-129	1	35	mg/kg	02.17.18 12:35	
m,p-Xylenes	<0.00403	0.202	0.183	91	0.186	93	70-135	2	35	mg/kg	02.17.18 12:35	
o-Xylene	<0.00202	0.101	0.0928	92	0.0943	94	71-133	2	35	mg/kg	02.17.18 12:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		92		92		80-120	%	02.17.18 12:35
4-Bromofluorobenzene	100		112		113		80-120	%	02.17.18 12:35

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3041711 Matrix: Soil Date Prep: 02.16.18
Parent Sample Id: 576509-003 MS Sample Id: 576509-003 S MSD Sample Id: 576509-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0772	78	0.0848	85	70-130	9	35	mg/kg	02.17.18 13:12	
Toluene	<0.00199	0.0996	0.0737	74	0.0836	84	70-130	13	35	mg/kg	02.17.18 13:12	
Ethylbenzene	<0.00199	0.0996	0.0748	75	0.0848	85	71-129	13	35	mg/kg	02.17.18 13:12	
m,p-Xylenes	<0.00398	0.199	0.146	73	0.166	83	70-135	13	35	mg/kg	02.17.18 13:12	
o-Xylene	<0.00199	0.0996	0.0737	74	0.0837	84	71-133	13	35	mg/kg	02.17.18 13:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	84		85		80-120	%	02.17.18 13:12
4-Bromofluorobenzene	106		116		80-120	%	02.17.18 13:12

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

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

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Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

www.xenco.com

Xenco Quote #

Xenco Job # 576509

Client / Reporting Information

Company Name / Branch: LTE / Permian

Company Address: 3300 N. A Street Bldg 1 Suite 103 Midland TX 79705

Email: Abaker@ltenv.com

Phone No: 432-704-5178

Project Contact: Adrian Baker

Samplers's Name: [redacted]

Project Information

Project Name/Number: PLU 151

Project Location: NM

Invoice To: XTO Energy - Kyle Littrell

PO Number: 30-015-31595

Analytical Information

Matrix Codes: W = Water; S = Soil/Sed/Solid; GW =Ground Water; DW = Drinking Water; P = Product; SW = Surface water; SL = Sludge; OW =Ocean/Sea Water; WI = Wipe; O = Oil; WW= Waste Water; A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Btex EPA Method 8021	TPH EPA Method 8015	Chloride EPA Method 300.1	Field Comments
1	SS01	12"	2-12-18	11:45	S	1								X	X	X	X	
2	SS02			11:50														
3	SS03			12:00														
4	SS04			12:15														
5	SS05			12:30														
6	SS06			12:40														
7																		
8																		
9																		
10																		

Temp: 3.9 IR ID:R-8

CF:(0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: 3.7

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY
- [x] STANDARD TAT

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [x] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

Sampler Danny Burns

API: 30-015-31595

2RP-3439

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler / Relinquished by	Date Time	Received By	Relinquished By	Date Time	Received By
1	D.B.	2-12-18	1	2	2-14-18 18:00	2 KRAMER
3		Date Time:	3	4	Date Time: 2/14/18 15:10	4
5		Date Time:	5	Custody Seal #	Preserved where applicable	On Ice: [x] Cooler Temp. Thermo. Corr. Factor

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Final 1.000

Page 21 of 22

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02/14/2018 06:00:00 PM

Work Order #: 576509

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.7
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Connie Hernandez Date: 02/15/2018

Connie Hernandez

Checklist reviewed by: Jessica Kramer Date: 02/15/2018

Jessica Kramer

Analytical Report 591023

for

LT Environmental, Inc.

Project Manager: Adrian Baker

PLU 151

12-JUL-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

12-JUL-18

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

Reference: XENCO Report No(s): **591023**
PLU 151
Project Address: NM 2RP 3439

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 591023. 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. 591023 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 Kramer
Project Assistant

Sample Cross Reference 591023

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS07	S	06-28-18 08:45	6 In	591023-001
SS08	S	06-28-18 08:50	6 In	591023-002
SS09	S	06-28-18 08:55	6 In	591023-003
SW09	S	06-28-18 10:10	2 In	591023-004

Client Name: LT Environmental, Inc.

Project Name: PLU 151

Project ID:
Work Order Number(s): *591023*

Report Date: *12-JUL-18*
Date Received: *06/30/2018*

Sample receipt non conformances and comments:

Per client email request, sample depth were correct. New version of report generated. JKR 07/12/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3055726 Inorganic Anions by EPA 300

Lab Sample ID 591023-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 591023-002, -003, -004.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3055790 BTEX by EPA 8021B

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

Certificate of Analysis Summary 591023

LT Environmental, Inc., Arvada, CO

Project Name: PLU 151

Project Id:
Contact: Adrian Baker
Project Location: NM 2RP 3439

Date Received in Lab: Sat Jun-30-18 09:00 am
Report Date: 12-JUL-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	591023-001		591023-002		591023-003		591023-004					
	Field Id:	SS07		SS08		SS09		SW09					
	Depth:	6- In		6- In		6- In		2- In					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-28-18 08:45		Jun-28-18 08:50		Jun-28-18 08:55		Jun-28-18 10:10					
BTEX by EPA 8021B	***Extracted:***	Jul-07-18 07:45		Jul-07-18 07:45		Jul-07-18 07:45		Jul-07-18 07:45					
	Analyzed:	Jul-07-18 20:46		Jul-07-18 21:04		Jul-07-18 16:53		Jul-07-18 21:22					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Toluene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Ethylbenzene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
m,p-Xylenes		<0.00402	0.00402	<0.00398	0.00398	<0.00399	0.00399	<0.00403	0.00403				
o-Xylene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Total Xylenes		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Total BTEX		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Inorganic Anions by EPA 300	***Extracted:***	Jul-05-18 16:30		Jul-06-18 08:45		Jul-06-18 08:45		Jul-06-18 08:45					
	Analyzed:	Jul-06-18 00:57		Jul-06-18 18:19		Jul-06-18 19:34		Jul-06-18 18:35					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		14.5	5.00	<4.95	4.95	<5.00	5.00	491	4.99				
TPH by SW8015 Mod	***Extracted:***	Jul-07-18 08:00		Jul-07-18 08:00		Jul-07-18 08:00		Jul-07-18 08:00					
	Analyzed:	Jul-07-18 16:44		Jul-07-18 17:04		Jul-07-18 17:24		Jul-07-18 17:44					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0				
Diesel Range Organics (DRO)		<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0				
Oil Range Hydrocarbons (ORO)		<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0				
Total TPH		<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0				

Jessica Kramer
Project Assistant

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id: **SS07** Matrix: Soil Date Received:06.30.18 09.00
Lab Sample Id: 591023-001 Date Collected: 06.28.18 08.45 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: SCM Date Prep: 07.05.18 16.30 Basis: Wet Weight
Seq Number: 3055724

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.5**	5.00	mg/kg	07.06.18 00.57		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 07.07.18 08.00 Basis: Wet Weight
Seq Number: 3055921

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.07.18 16.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	07.07.18 16.44	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	07.07.18 16.44	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	07.07.18 16.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	07.07.18 16.44	
o-Terphenyl	84-15-1	98	%	70-135	07.07.18 16.44	

Certificate of Analytical Results 591023

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	06.30.18 09.00
Lab Sample Id:	591023-001	Date Collected:	06.28.18 08.45	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 07.45	Basis:	Wet Weight
Seq Number:	3055790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.07.18 20.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.07.18 20.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.07.18 20.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.07.18 20.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.07.18 20.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.07.18 20.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.07.18 20.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	07.07.18 20.46	
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.07.18 20.46	

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS08**	Matrix:	Soil	Date Received:	06.30.18 09.00
Lab Sample Id:	591023-002	Date Collected:	06.28.18 08.50	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 08.45	Basis:	Wet Weight
Seq Number:	3055726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	07.06.18 18.19	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.07.18 08.00	Basis:	Wet Weight
Seq Number:	3055921				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.07.18 17.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.07.18 17.04	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.07.18 17.04	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.07.18 17.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	07.07.18 17.04	
o-Terphenyl	84-15-1	91	%	70-135	07.07.18 17.04	

Certificate of Analytical Results 591023

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS08**	Matrix:	Soil	Date Received:	06.30.18 09.00
Lab Sample Id:	591023-002	Date Collected:	06.28.18 08.50	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 07.45	Basis:	Wet Weight
Seq Number:	3055790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.07.18 21.04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.07.18 21.04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.07.18 21.04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.07.18 21.04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.07.18 21.04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.07.18 21.04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.07.18 21.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	07.07.18 21.04	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.07.18 21.04	

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS09**	Matrix:	Soil	Date Received:	06.30.18 09.00
Lab Sample Id:	591023-003	Date Collected:	06.28.18 08.55	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 08.45	Basis:	Wet Weight
Seq Number:	3055726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	07.06.18 19.34	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.07.18 08.00	Basis:	Wet Weight
Seq Number:	3055921				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.07.18 17.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	07.07.18 17.24	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	07.07.18 17.24	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	07.07.18 17.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	07.07.18 17.24	
o-Terphenyl	84-15-1	97	%	70-135	07.07.18 17.24	

Certificate of Analytical Results 591023

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SS09**	Matrix:	Soil	Date Received:	06.30.18 09.00
Lab Sample Id:	591023-003	Date Collected:	06.28.18 08.55	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 07.45	Basis:	Wet Weight
Seq Number:	3055790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.07.18 16.53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.07.18 16.53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.07.18 16.53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.07.18 16.53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.07.18 16.53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.07.18 16.53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.07.18 16.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	76	%	70-130	07.07.18 16.53	
1,4-Difluorobenzene	540-36-3	77	%	70-130	07.07.18 16.53	

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SW09**	Matrix:	Soil	Date Received:	06.30.18 09.00
Lab Sample Id:	591023-004	Date Collected:	06.28.18 10.10	Sample Depth:	2 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 08.45	Basis:	Wet Weight
Seq Number:	3055726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**491**	4.99	mg/kg	07.06.18 18.35		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.07.18 08.00	Basis:	Wet Weight
Seq Number:	3055921				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.07.18 17.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.07.18 17.44	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.07.18 17.44	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.07.18 17.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	07.07.18 17.44	
o-Terphenyl	84-15-1	95	%	70-135	07.07.18 17.44	

Certificate of Analytical Results 591023

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SW09**	Matrix:	Soil	Date Received:	06.30.18 09.00
Lab Sample Id:	591023-004	Date Collected:	06.28.18 10.10	Sample Depth:	2 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 07.45	Basis:	Wet Weight
Seq Number:	3055790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.07.18 21.22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.07.18 21.22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.07.18 21.22	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.07.18 21.22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.07.18 21.22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.07.18 21.22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.07.18 21.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	83	%	70-130	07.07.18 21.22	
4-Bromofluorobenzene	460-00-4	90	%	70-130	07.07.18 21.22	

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

QC Summary 591023

LT Environmental, Inc.

PLU 151

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055724 Matrix: Solid Date Prep: 07.05.18
MB Sample Id: 7657873-1-BLK LCS Sample Id: 7657873-1-BKS LCSD Sample Id: 7657873-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	236	94	244	98	90-110	3	20	mg/kg	07.05.18 22:21	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055726 Matrix: Solid Date Prep: 07.06.18
MB Sample Id: 7657951-1-BLK LCS Sample Id: 7657951-1-BKS LCSD Sample Id: 7657951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	271	108	90-110	1	20	mg/kg	07.06.18 18:08	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055724 Matrix: Soil Date Prep: 07.05.18
Parent Sample Id: 591014-001 MS Sample Id: 591014-001 S MSD Sample Id: 591014-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	154	249	392	96	399	98	90-110	2	20	mg/kg	07.05.18 22:37	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055724 Matrix: Soil Date Prep: 07.05.18
Parent Sample Id: 591015-007 MS Sample Id: 591015-007 S MSD Sample Id: 591015-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.36	246	237	94	249	99	90-110	5	20	mg/kg	07.05.18 23:53	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055726 Matrix: Soil Date Prep: 07.06.18
Parent Sample Id: 591023-002 MS Sample Id: 591023-002 S MSD Sample Id: 591023-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.95	248	273	110	275	111	90-110	1	20	mg/kg	07.06.18 18:24	X

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

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

QC Summary 591023

LT Environmental, Inc.

PLU 151

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055726 Matrix: Soil Date Prep: 07.06.18
Parent Sample Id: 591023-003 MS Sample Id: 591023-003 S MSD Sample Id: 591023-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	256	102	90-110	0	20	mg/kg	07.06.18 19:40	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3055921 Matrix: Solid Date Prep: 07.07.18
MB Sample Id: 7658081-1-BLK LCS Sample Id: 7658081-1-BKS LCSD Sample Id: 7658081-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	953	95	986	99	70-135	3	20	mg/kg	07.07.18 10:10	
Diesel Range Organics (DRO)	<15.0	1000	986	99	1020	102	70-135	3	20	mg/kg	07.07.18 10:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		118		117		70-135	%	07.07.18 10:10
o-Terphenyl	105		107		108		70-135	%	07.07.18 10:10

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3055921 Matrix: Soil Date Prep: 07.07.18
Parent Sample Id: 591015-001 MS Sample Id: 591015-001 S MSD Sample Id: 591015-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	970	97	949	95	70-135	2	20	mg/kg	07.07.18 11:09	
Diesel Range Organics (DRO)	59.6	998	1080	102	1060	100	70-135	2	20	mg/kg	07.07.18 11:09	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		115		70-135	%	07.07.18 11:09
o-Terphenyl	105		107		70-135	%	07.07.18 11:09

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 591023

LT Environmental, Inc.

PLU 151

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3055790 Matrix: Solid Date Prep: 07.07.18

MB Sample Id: 7657996-1-BLK LCS Sample Id: 7657996-1-BKS LCSD Sample Id: 7657996-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0928	93	0.0923	91	70-130	1	35	mg/kg	07.07.18 15:05	
Toluene	<0.00201	0.100	0.0940	94	0.0945	94	70-130	1	35	mg/kg	07.07.18 15:05	
Ethylbenzene	<0.00201	0.100	0.0936	94	0.0934	92	70-130	0	35	mg/kg	07.07.18 15:05	
m,p-Xylenes	<0.00402	0.201	0.189	94	0.195	97	70-130	3	35	mg/kg	07.07.18 15:05	
o-Xylene	<0.00201	0.100	0.0891	89	0.0988	98	70-130	10	35	mg/kg	07.07.18 15:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	120		101		99		70-130	%	07.07.18 15:05
4-Bromofluorobenzene	88		80		88		70-130	%	07.07.18 15:05

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3055790 Matrix: Soil Date Prep: 07.07.18

Parent Sample Id: 591023-003 MS Sample Id: 591023-003 S MSD Sample Id: 591023-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0834	83	0.0819	81	70-130	2	35	mg/kg	07.07.18 15:41	
Toluene	<0.00200	0.100	0.0840	84	0.0776	77	70-130	8	35	mg/kg	07.07.18 15:41	
Ethylbenzene	<0.00200	0.100	0.0815	82	0.0771	76	70-130	6	35	mg/kg	07.07.18 15:41	
m,p-Xylenes	<0.00401	0.200	0.165	83	0.157	78	70-130	5	35	mg/kg	07.07.18 15:41	
o-Xylene	<0.00200	0.100	0.0793	79	0.0763	76	70-130	4	35	mg/kg	07.07.18 15:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		83		70-130	%	07.07.18 15:41
4-Bromofluorobenzene	83		78		70-130	%	07.07.18 15:41

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

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Xenco Quote # | Xenco Job # 591073

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. - Permian Office
Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705
Email: Abaker@LTEnv.com | Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Lynda Lanabaul

Project Information

Project Name/Number: PLU 151
Project Location: NM 2RP 3439
Invoice To: XTO Energy - Kyle Littrell
PO Number:

Analytical Information

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8021 (only BTEX)	TPH (MRO GRO DRO) 8015	Chloride (300.0)
1	SS 07	6"	06/28/18	8:45	S	1								X	X	X	X
2	SS 08	6"		8:50	S	1								X	X	X	X
3	SS 09	6"		8:55	S	1								X	X	X	X
4	SW 09	2'		10:10	S	1								X	X	X	X
5																	
6																	
7																	
8																	
9																	
10																	

06/28/18

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

Field Comments: } water runoff
well 10' buffer

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [x] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking # 772490057739

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		06/28/18 16:00		2	6/29/18 15:30	2 6/30/18 0900
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice: X Cooler Temp. 3.1 Thermo. Corr. Factor 0.0

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XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/30/2018 09:00:00 AM

Work Order #: 591023

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

Temperature Measuring device used : R8

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 container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 07/02/2018

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 07/02/2018

Jessica Kramer

Analytical Report 591031

for

LT Environmental, Inc.

Project Manager: Adrian Baker

PLU 151

10-JUL-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

10-JUL-18

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

Reference: XENCO Report No(s): **591031**
PLU 151
Project Address: NM 2RP-3439

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 591031. 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. 591031 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 Kramer
Project Assistant

Sample Cross Reference 591031

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	06-27-18 10:10	3 ft	591031-001
FS02	S	06-27-18 12:25	2.5 ft	591031-002
FS03	S	06-27-18 12:20	2.5 ft	591031-003
SW01	S	06-27-18 10:25	2.5 ft	591031-004
SW02	S	06-27-18 10:20	1.5 ft	591031-005
SW03	S	06-27-18 10:15	1 ft	591031-006
SW04	S	06-27-18 12:00	1.5 ft	591031-007
SW05	S	06-27-18 12:05	1.5 ft	591031-008
SW06	S	06-27-18 15:45	2 ft	591031-009
SW07	S	06-27-18 16:40	1 ft	591031-010
SW08	S	06-27-18 10:20	2 ft	591031-011

Client Name: LT Environmental, Inc.
Project Name: PLU 151

Project ID:
Work Order Number(s): *591031*

Report Date: *10-JUL-18*
Date Received: *07/02/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3055793 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3055798 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 591031

LT Environmental, Inc., Arvada, CO

Project Name: PLU 151

Project Id:
Contact: Adrian Baker
Project Location: NM 2RP-3439

Date Received in Lab: Mon Jul-02-18 08:10 am
Report Date: 10-JUL-18
Project Manager: Jessica Kramer

Analysis Requested	*Lab Id:*	591031-001		591031-002		591031-003		591031-004		591031-005		591031-006	
	Field Id:	FS01		FS02		FS03		SW01		SW02		SW03	
	Depth:	3- ft		2.5- ft		2.5- ft		2.5- ft		1.5- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-27-18 10:10		Jun-27-18 12:25		Jun-27-18 12:20		Jun-27-18 10:25		Jun-27-18 10:20		Jun-27-18 10:15	
BTEX by EPA 8021B	*Extracted:*	Jul-07-18 08:15		Jul-07-18 08:15		Jul-07-18 08:15		Jul-07-18 08:15		Jul-07-18 08:15		Jul-08-18 08:00	
	Analyzed:	Jul-08-18 04:14		Jul-08-18 05:08		Jul-08-18 05:26		Jul-08-18 05:44		Jul-08-18 06:02		Jul-08-18 10:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00339	0.00339
Toluene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00339	0.00339
Ethylbenzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00339	0.00339
m,p-Xylenes		<0.00402	0.00402	<0.00404	0.00404	<0.00398	0.00398	<0.00402	0.00402	<0.00404	0.00404	<0.00678	0.00678
o-Xylene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00339	0.00339
Total Xylenes		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00339	0.00339
Total BTEX		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00339	0.00339
Inorganic Anions by EPA 300	*Extracted:*	Jul-06-18 08:45		Jul-06-18 08:45		Jul-06-18 08:45		Jul-06-18 12:30		Jul-06-18 12:30		Jul-06-18 12:30	
	Analyzed:	Jul-06-18 20:34		Jul-06-18 20:39		Jul-06-18 20:45		Jul-06-18 21:33		Jul-06-18 21:39		Jul-06-18 21:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		182	4.94	113	5.00	75.9	4.95	220	4.96	148	4.90	31.8	4.90
TPH by SW8015 Mod	*Extracted:*	Jul-08-18 10:00		Jul-08-18 10:00		Jul-08-18 10:00		Jul-08-18 10:00		Jul-08-18 10:00		Jul-08-18 10:00	
	Analyzed:	Jul-08-18 12:35		Jul-08-18 13:34		Jul-08-18 13:54		Jul-08-18 14:14		Jul-08-18 14:34		Jul-08-18 14:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 591031

LT Environmental, Inc., Arvada, CO

Project Name: PLU 151

Project Id:
Contact: Adrian Baker
Project Location: NM 2RP-3439

Date Received in Lab: Mon Jul-02-18 08:10 am
Report Date: 10-JUL-18
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	591031-007		591031-008		591031-009		591031-010		591031-011	
	Field Id:	SW04		SW05		SW06		SW07		SW08	
	Depth:	1.5- ft		1.5- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-27-18 12:00		Jun-27-18 12:05		Jun-27-18 15:45		Jun-27-18 16:40		Jun-27-18 10:20	
BTEX by EPA 8021B	***Extracted:***	Jul-08-18 08:00		Jul-07-18 08:15		Jul-07-18 08:15		Jul-07-18 08:15		Jul-08-18 08:00	
	Analyzed:	Jul-08-18 11:02		Jul-08-18 06:55		Jul-08-18 07:12		Jul-08-18 07:29		Jul-08-18 10:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00332	0.00332	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201
Toluene		<0.00332	0.00332	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201
Ethylbenzene		<0.00332	0.00332	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201
m,p-Xylenes		<0.00664	0.00664	<0.00402	0.00402	<0.00402	0.00402	<0.00398	0.00398	<0.00402	0.00402
o-Xylene		<0.00332	0.00332	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201
Total Xylenes		<0.00332	0.00332	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201
Total BTEX		<0.00332	0.00332	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201
Inorganic Anions by EPA 300	***Extracted:***	Jul-06-18 12:30		Jul-06-18 12:30		Jul-06-18 12:30		Jul-06-18 12:30		Jul-06-18 12:30	
	Analyzed:	Jul-06-18 21:49		Jul-06-18 21:17		Jul-06-18 22:06		Jul-06-18 22:11		Jul-06-18 22:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		62.0	5.00	86.3	4.96	335	4.96	21.9	4.98	322	4.97
TPH by SW8015 Mod	***Extracted:***	Jul-08-18 10:00		Jul-08-18 10:00		Jul-08-18 10:00		Jul-08-18 10:00		Jul-08-18 10:00	
	Analyzed:	Jul-08-18 15:13		Jul-08-18 15:33		Jul-08-18 15:53		Jul-08-18 16:12		Jul-08-18 17:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

Jessica Kramer
Project Assistant

Certificate of Analytical Results 591031

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-001	Date Collected:	06.27.18 10.10	Sample Depth:	3 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 08.45	Basis:	Wet Weight
Seq Number:	3055726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**182**	4.94	mg/kg	07.06.18 20.34		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 12.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 12.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 12.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 12.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	07.08.18 12.35	
o-Terphenyl	84-15-1	111	%	70-135	07.08.18 12.35	

Certificate of Analytical Results 591031

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-001	Date Collected:	06.27.18 10.10	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 08.15	Basis:	Wet Weight
Seq Number:	3055793				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.08.18 04.14	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.08.18 04.14	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.18 04.14	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.18 04.14	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.18 04.14	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.18 04.14	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.08.18 04.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.08.18 04.14	
4-Bromofluorobenzene	460-00-4	85	%	70-130	07.08.18 04.14	

Certificate of Analytical Results 591031

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-002	Date Collected:	06.27.18 12.25	Sample Depth:	2.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 08.45	Basis:	Wet Weight
Seq Number:	3055726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**113**	5.00	mg/kg	07.06.18 20.39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 13.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 13.34	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 13.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 13.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	07.08.18 13.34	
o-Terphenyl	84-15-1	97	%	70-135	07.08.18 13.34	

Certificate of Analytical Results 591031

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-002	Date Collected:	06.27.18 12.25	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 08.15	Basis:	Wet Weight
Seq Number:	3055793				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.08.18 05.08	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.08.18 05.08	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.08.18 05.08	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.08.18 05.08	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.08.18 05.08	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.08.18 05.08	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.08.18 05.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	07.08.18 05.08	
4-Bromofluorobenzene	460-00-4	85	%	70-130	07.08.18 05.08	

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id: **FS03** Matrix: Soil Date Received:07.02.18 08.10

Lab Sample Id: 591031-003 Date Collected: 06.27.18 12.20 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 07.06.18 08.45 Basis: Wet Weight

Seq Number: 3055726

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**75.9**	4.95	mg/kg	07.06.18 20.45		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 07.08.18 10.00 Basis: Wet Weight

Seq Number: 3055931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 13.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 13.54	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 13.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 13.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	07.08.18 13.54	
o-Terphenyl	84-15-1	102	%	70-135	07.08.18 13.54	

Certificate of Analytical Results 591031

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-003	Date Collected:	06.27.18 12.20	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 08.15	Basis:	Wet Weight
Seq Number:	3055793				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.08.18 05.26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.08.18 05.26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.08.18 05.26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.08.18 05.26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.08.18 05.26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.08.18 05.26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.08.18 05.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	81	%	70-130	07.08.18 05.26	
1,4-Difluorobenzene	540-36-3	123	%	70-130	07.08.18 05.26	

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Sample Id:	**SW01**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-004	Date Collected:	06.27.18 10.25	Sample Depth:	2.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 12.30	Basis:	Wet Weight
Seq Number:	3055732				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**220**	4.96	mg/kg	07.06.18 21.33		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 14.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 14.14	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 14.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 14.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	07.08.18 14.14	
o-Terphenyl	84-15-1	102	%	70-135	07.08.18 14.14	

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LT Environmental, Inc., Arvada, CO

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Sample Id:	**SW01**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-004	Date Collected:	06.27.18 10.25	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 08.15	Basis:	Wet Weight
Seq Number:	3055793				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.08.18 05.44	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.08.18 05.44	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.18 05.44	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.18 05.44	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.18 05.44	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.18 05.44	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.08.18 05.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	07.08.18 05.44	
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.08.18 05.44	

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Sample Id:	**SW02**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-005	Date Collected:	06.27.18 10.20	Sample Depth:	1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 12.30	Basis:	Wet Weight
Seq Number:	3055732				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**148**	4.90	mg/kg	07.06.18 21.39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.08.18 14.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	07.08.18 14.34	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	07.08.18 14.34	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	07.08.18 14.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	07.08.18 14.34	
o-Terphenyl	84-15-1	99	%	70-135	07.08.18 14.34	

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Sample Id:	**SW02**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-005	Date Collected:	06.27.18 10.20	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 08.15	Basis:	Wet Weight
Seq Number:	3055793				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.08.18 06.02	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.08.18 06.02	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.08.18 06.02	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.08.18 06.02	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.08.18 06.02	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.08.18 06.02	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.08.18 06.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	83	%	70-130	07.08.18 06.02	
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.08.18 06.02	

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Sample Id:	**SW03**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-006	Date Collected:	06.27.18 10.15	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 12.30	Basis:	Wet Weight
Seq Number:	3055732				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.8**	4.90	mg/kg	07.06.18 21.44		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.08.18 14.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	07.08.18 14.54	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	07.08.18 14.54	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	07.08.18 14.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	07.08.18 14.54	
o-Terphenyl	84-15-1	104	%	70-135	07.08.18 14.54	

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Sample Id:	**SW03**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-006	Date Collected:	06.27.18 10.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.08.18 08.00	Basis:	Wet Weight
Seq Number:	3055798				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00339	0.00339	mg/kg	07.08.18 10.44	U	1
Toluene	108-88-3	<0.00339	0.00339	mg/kg	07.08.18 10.44	U	1
Ethylbenzene	100-41-4	<0.00339	0.00339	mg/kg	07.08.18 10.44	U	1
m,p-Xylenes	179601-23-1	<0.00678	0.00678	mg/kg	07.08.18 10.44	U	1
o-Xylene	95-47-6	<0.00339	0.00339	mg/kg	07.08.18 10.44	U	1
Total Xylenes	1330-20-7	<0.00339	0.00339	mg/kg	07.08.18 10.44	U	1
Total BTEX		<0.00339	0.00339	mg/kg	07.08.18 10.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	07.08.18 10.44	
1,4-Difluorobenzene	540-36-3	115	%	70-130	07.08.18 10.44	

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Sample Id: **SW04** Matrix: Soil Date Received:07.02.18 08.10
Lab Sample Id: 591031-007 Date Collected: 06.27.18 12.00 Sample Depth: 1.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: SCM Date Prep: 07.06.18 12.30 Basis: Wet Weight
Seq Number: 3055732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**62.0**	5.00	mg/kg	07.06.18 21.49		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 07.08.18 10.00 Basis: Wet Weight
Seq Number: 3055931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 15.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 15.13	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 15.13	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 15.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	07.08.18 15.13	
o-Terphenyl	84-15-1	103	%	70-135	07.08.18 15.13	

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Sample Id:	**SW04**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-007	Date Collected:	06.27.18 12.00	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.08.18 08.00	Basis:	Wet Weight
Seq Number:	3055798				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00332	0.00332	mg/kg	07.08.18 11.02	U	1
Toluene	108-88-3	<0.00332	0.00332	mg/kg	07.08.18 11.02	U	1
Ethylbenzene	100-41-4	<0.00332	0.00332	mg/kg	07.08.18 11.02	U	1
m,p-Xylenes	179601-23-1	<0.00664	0.00664	mg/kg	07.08.18 11.02	U	1
o-Xylene	95-47-6	<0.00332	0.00332	mg/kg	07.08.18 11.02	U	1
Total Xylenes	1330-20-7	<0.00332	0.00332	mg/kg	07.08.18 11.02	U	1
Total BTEX		<0.00332	0.00332	mg/kg	07.08.18 11.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	07.08.18 11.02	
4-Bromofluorobenzene	460-00-4	100	%	70-130	07.08.18 11.02	

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Sample Id:	**SW05**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-008	Date Collected:	06.27.18 12.05	Sample Depth:	1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 12.30	Basis:	Wet Weight
Seq Number:	3055732				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**86.3**	4.96	mg/kg	07.06.18 21.17		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 15.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 15.33	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 15.33	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 15.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	07.08.18 15.33	
o-Terphenyl	84-15-1	100	%	70-135	07.08.18 15.33	

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Sample Id:	**SW05**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-008	Date Collected:	06.27.18 12.05	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 08.15	Basis:	Wet Weight
Seq Number:	3055793				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.08.18 06.55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.08.18 06.55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.18 06.55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.18 06.55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.18 06.55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.18 06.55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.08.18 06.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	07.08.18 06.55	
1,4-Difluorobenzene	540-36-3	116	%	70-130	07.08.18 06.55	

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Sample Id:	**SW06**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-009	Date Collected:	06.27.18 15.45	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 12.30	Basis:	Wet Weight
Seq Number:	3055732				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**335**	4.96	mg/kg	07.06.18 22.06		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 15.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 15.53	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 15.53	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 15.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	07.08.18 15.53	
o-Terphenyl	84-15-1	100	%	70-135	07.08.18 15.53	

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Sample Id:	**SW06**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-009	Date Collected:	06.27.18 15.45	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 08.15	Basis:	Wet Weight
Seq Number:	3055793				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.08.18 07.12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.08.18 07.12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.18 07.12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.18 07.12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.18 07.12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.18 07.12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.08.18 07.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.08.18 07.12	
1,4-Difluorobenzene	540-36-3	119	%	70-130	07.08.18 07.12	

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Sample Id:	**SW07**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-010	Date Collected:	06.27.18 16.40	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 12.30	Basis:	Wet Weight
Seq Number:	3055732				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.9**	4.98	mg/kg	07.06.18 22.11		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 16.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 16.12	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 16.12	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 16.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	07.08.18 16.12	
o-Terphenyl	84-15-1	101	%	70-135	07.08.18 16.12	

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Sample Id:	**SW07**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-010	Date Collected:	06.27.18 16.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.07.18 08.15	Basis:	Wet Weight
Seq Number:	3055793				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.08.18 07.29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.08.18 07.29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.08.18 07.29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.08.18 07.29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.08.18 07.29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.08.18 07.29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.08.18 07.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.08.18 07.29	
4-Bromofluorobenzene	460-00-4	94	%	70-130	07.08.18 07.29	

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Sample Id:	**SW08**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-011	Date Collected:	06.27.18 10.20	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.06.18 12.30	Basis:	Wet Weight
Seq Number:	3055732				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**322**	4.97	mg/kg	07.06.18 22.16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.18 10.00	Basis:	Wet Weight
Seq Number:	3055931				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.08.18 17.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.08.18 17.11	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.08.18 17.11	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.08.18 17.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	07.08.18 17.11	
o-Terphenyl	84-15-1	100	%	70-135	07.08.18 17.11	

Certificate of Analytical Results 591031

LT Environmental, Inc., Arvada, CO

PLU 151

Sample Id:	**SW08**	Matrix:	Soil	Date Received:	07.02.18 08.10
Lab Sample Id:	591031-011	Date Collected:	06.27.18 10.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.08.18 08.00	Basis:	Wet Weight
Seq Number:	3055798				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.08.18 10.08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.08.18 10.08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.08.18 10.08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.08.18 10.08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.08.18 10.08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.08.18 10.08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.08.18 10.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.08.18 10.08	
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.08.18 10.08	

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

QC Summary 591031

LT Environmental, Inc.

PLU 151

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055726 Matrix: Solid Date Prep: 07.06.18
MB Sample Id: 7657951-1-BLK LCS Sample Id: 7657951-1-BKS LCSD Sample Id: 7657951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	271	108	90-110	1	20	mg/kg	07.06.18 18:08	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055732 Matrix: Solid Date Prep: 07.06.18
MB Sample Id: 7657952-1-BLK LCS Sample Id: 7657952-1-BKS LCSD Sample Id: 7657952-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	263	105	265	106	90-110	1	20	mg/kg	07.06.18 21:06	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055726 Matrix: Soil Date Prep: 07.06.18
Parent Sample Id: 591023-002 MS Sample Id: 591023-002 S MSD Sample Id: 591023-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.95	248	273	110	275	111	90-110	1	20	mg/kg	07.06.18 18:24	X

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055726 Matrix: Soil Date Prep: 07.06.18
Parent Sample Id: 591023-003 MS Sample Id: 591023-003 S MSD Sample Id: 591023-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	256	102	90-110	0	20	mg/kg	07.06.18 19:40	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055732 Matrix: Soil Date Prep: 07.06.18
Parent Sample Id: 591031-008 MS Sample Id: 591031-008 S MSD Sample Id: 591031-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	86.3	248	353	108	356	109	90-110	1	20	mg/kg	07.06.18 21:22	

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

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

QC Summary 591031

LT Environmental, Inc.

PLU 151

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3055732 Matrix: Soil Date Prep: 07.06.18
Parent Sample Id: 591054-002 MS Sample Id: 591054-002 S MSD Sample Id: 591054-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1220	248	1440	89	1440	89	90-110	0	20	mg/kg	07.06.18 22:38	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3055931 Matrix: Solid Date Prep: 07.08.18
MB Sample Id: 7658088-1-BLK LCS Sample Id: 7658088-1-BKS LCSD Sample Id: 7658088-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	937	94	1000	100	70-135	7	20	mg/kg	07.08.18 11:56	
Diesel Range Organics (DRO)	<15.0	1000	978	98	1040	104	70-135	6	20	mg/kg	07.08.18 11:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		122		118		70-135	%	07.08.18 11:56
o-Terphenyl	105		111		108		70-135	%	07.08.18 11:56

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3055931 Matrix: Soil Date Prep: 07.08.18
Parent Sample Id: 591031-001 MS Sample Id: 591031-001 S MSD Sample Id: 591031-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	1010	101	989	99	70-135	2	20	mg/kg	07.08.18 12:55	
Diesel Range Organics (DRO)	<15.0	999	1050	105	1020	102	70-135	3	20	mg/kg	07.08.18 12:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		118		70-135	%	07.08.18 12:55
o-Terphenyl	107		102		70-135	%	07.08.18 12:55

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 591031

LT Environmental, Inc.

PLU 151

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3055793 Matrix: Solid Date Prep: 07.07.18
MB Sample Id: 7657998-1-BLK LCS Sample Id: 7657998-1-BKS LCSD Sample Id: 7657998-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0980	98	0.0755	75	70-130	26	35	mg/kg	07.07.18 23:46	
Toluene	<0.00200	0.100	0.0971	97	0.0739	73	70-130	27	35	mg/kg	07.07.18 23:46	
Ethylbenzene	<0.00200	0.100	0.0900	90	0.0759	75	70-130	17	35	mg/kg	07.07.18 23:46	
m,p-Xylenes	<0.00401	0.200	0.185	93	0.153	76	70-130	19	35	mg/kg	07.07.18 23:46	
o-Xylene	<0.00200	0.100	0.0912	91	0.0721	71	70-130	23	35	mg/kg	07.07.18 23:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		88		74		70-130	%	07.07.18 23:46
4-Bromofluorobenzene	81		77		70		70-130	%	07.07.18 23:46

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3055798 Matrix: Solid Date Prep: 07.08.18
MB Sample Id: 7658000-1-BLK LCS Sample Id: 7658000-1-BKS LCSD Sample Id: 7658000-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.0859	85	70-130	19	35	mg/kg	07.08.18 08:22	
Toluene	<0.00200	0.100	0.107	107	0.0893	88	70-130	18	35	mg/kg	07.08.18 08:22	
Ethylbenzene	<0.00200	0.100	0.108	108	0.0885	88	70-130	20	35	mg/kg	07.08.18 08:22	
m,p-Xylenes	<0.00401	0.200	0.221	111	0.181	90	70-130	20	35	mg/kg	07.08.18 08:22	
o-Xylene	<0.00200	0.100	0.104	104	0.0863	85	70-130	19	35	mg/kg	07.08.18 08:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		91		93		70-130	%	07.08.18 08:22
4-Bromofluorobenzene	73		85		82		70-130	%	07.08.18 08:22

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3055793 Matrix: Soil Date Prep: 07.07.18
Parent Sample Id: 591118-002 MS Sample Id: 591118-002 S MSD Sample Id: 591118-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0888	89	0.0720	72	70-130	21	35	mg/kg	07.08.18 00:21	
Toluene	<0.00201	0.100	0.0758	76	0.0642	64	70-130	17	35	mg/kg	07.08.18 00:21	X
Ethylbenzene	<0.00201	0.100	0.0475	48	0.0346	35	70-130	31	35	mg/kg	07.08.18 00:21	X
m,p-Xylenes	<0.00402	0.201	0.117	58	0.0843	42	70-130	32	35	mg/kg	07.08.18 00:21	X
o-Xylene	<0.00201	0.100	0.0658	66	0.0563	57	70-130	16	35	mg/kg	07.08.18 00:21	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	124		78		70-130	%	07.08.18 00:21
4-Bromofluorobenzene	101		78		70-130	%	07.08.18 00:21

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

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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

QC Summary 591031

LT Environmental, Inc.

PLU 151

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3055798 Matrix: Soil Date Prep: 07.08.18

Parent Sample Id: 591031-011 MS Sample Id: 591031-011 S MSD Sample Id: 591031-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0980	97	0.0845	85	70-130	15	35	mg/kg	07.08.18 08:58	
Toluene	<0.00202	0.101	0.0955	95	0.0816	82	70-130	16	35	mg/kg	07.08.18 08:58	
Ethylbenzene	<0.00202	0.101	0.0927	92	0.0836	84	70-130	10	35	mg/kg	07.08.18 08:58	
m,p-Xylenes	<0.00403	0.202	0.192	95	0.171	85	70-130	12	35	mg/kg	07.08.18 08:58	
o-Xylene	<0.00202	0.101	0.0887	88	0.0788	79	70-130	12	35	mg/kg	07.08.18 08:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		126		70-130	%	07.08.18 08:58
4-Bromofluorobenzene	90		104		70-130	%	07.08.18 08:58

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

CHAIN OF CUSTODY

Page 1 Of 2

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Dallas Texas (214-902-0300)
San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)
Phoenix, Arizona (480-355-0900)
www.xenco.com

Xenco Quote #: | Xenco Job #: 591081

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. - Permian Office
Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705
Email: Abaker@LTEnv.com | Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Lynda Lambach

Project Information

Project Name/Number: PLU 151
Project Location: NM 2RP 3439
Invoice To: XTO Energy - Kyle Littrell
PO Number: 2RP-3439

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Analytical Information: BTEX 8021 (only BTEX)	TPH (MRO, GRO, DRO) 8015	Chloride (300.0)	Field Comments
1	FS01	2.5'	6/27/18	13:30	S	1								X	X	X	X	PT
2	FS02	2.5'		12:25	S	1								X	X	X	X	mid
3	FS03	2.5'		12:20	S	1								X	X	X	X	N wall
4	SW01	1.5'		10:25	S	1								X	X	X	X	N wall - check
5	SW02	1.5'		10:20	S	1								X	X	X	X	E wall
6	SW03	1'		10:15	S	1								X	X	X	X	NE wall
7	SW04	1.5'		12:00	S	1								X	X	X	X	
8	SW05	1.5'		12:05	S	1								X	X	X	X	
9	SW06	2'		15:48	S	1								X	X	X	X	
10	SW07	1'		16:40	S	1								X	X	X	X	

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [x] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by:	Date/Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		6/27/18 17:30		2	7/2/18 0815	2
3			3	4		4
5			5	Custody Seal #	Preserved where applicable	On Ice: X

Cooler Temp. 2.3 R

Thermo. Corr. Factor 0.0

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

CHAIN OF CUSTODY

Page 2 Of 2

XENCO LABORATORIES

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Stafford,Texas (281-240-4200)

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San Antonio, Texas (210-509-3334)

Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

www.xenco.com

Xenco Quote #

Xenco Job # 591087

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. - Permian Office

Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705

Email: Abaker@LTEnv.com

Phone No: (432) 704-5178

Project Contact: Adrian Baker

Samplers's Name Cyndi Townsend

Project Information

Project Name/Number: PLU 151

Project Location: NM 2RP 3439

Invoice To: XTO Energy - Kyle Littrell

PO Number: 2RP 3439

Analytical Information

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX 8021 (only BTEX)	TPH (MRO GRO DRO) 8015	Chloride (300.0)
1	SW08	2'	06/27/18	12:20	S	1								X	X	X	X
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

06/27/2018

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

Field Comments: E well PS

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [X] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished By:	Date Time:	Received By:
1	Cyndi Townsend	06/27/2018 17:30	
2			
3			
4			
5			

	Relinquished By:	Date Time:	Received By:
1			
2		7/2/18 8:10	
3			
4			
5			

Custody Seal # | Preserved where applicable | On Ice [X] | Cooler Temp. 3 | Thermo. Corr. Factor RC-0

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Final 1.000

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XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 07/02/2018 08:10:00 AM

Work Order #: 591031

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 07/02/2018
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 07/05/2018
Jessica Kramer