LT Environmental, Inc.
3300 North "A" Street
Building 1, Unit 103
Midland, Texas 79705
432.704.5178

February 5, 2019

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

RE: Closure Request
Poker Lake Unit CVX JV RR #003H/Poker Lake Unit Ross Ranch 19 Battery
Remediation Permit Number 2RP-4706
Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following letter report detailing excavation of impacted soil and confirmation soil sampling activities at the Poker Lake Unit CVX JV RR #003H/Poker Lake Unit Ross Ranch 19 Battery (Site) located in Unit P, Section 19, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1).

The purpose of the excavation and soil sampling activities was to address impacts to soil after the well pumped off and caused fluid to release from the stuffing box E-pot. The power was shut down during response activities, inactivating the water transfer pump. As a result, the water tank overflowed into the lined containment while the power was off. The release of approximately 4 barrels (bbls) of crude oil and 110 bbls of produced water was discovered on April 1, 2018. The initial release affected approximately 3,900 square feet of caliche pad near the well head, while the second release remained within the lined tank battery containment. Approximately 3.5 bbls of crude oil and 103.5 bbls of produced water were recovered with a vacuum truck. The free-standing fluid was recovered from the ground surface, and all fluid released within the lined containment was recovered and returned to the production tanks. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on April 16, 2018, and was assigned Remediation Permit (RP) Number 2RP-4706 (Attachment 1).

The release is included in the *Compliance Agreement for Remediation for Historical Releases* (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement is to ensure reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) dated August 14, 2018. This release is categorized as a Tier II site in the Compliance Agreement, meaning remediation of the release began prior to August 14, 2018, the effective date of 19.15.29 NMAC, however the

closure report is pending. Based on the excavation activities and results of the confirmation soil sampling events, XTO is requesting no further action for this release.

BACKGROUND

According to Section 12 of 19.15.29 NMAC, LTE applied Table 1, the *Closure Criteria for Soils Impacted by a Release*. Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is United States Geological Survey well 320629103533002 25S.30E.21.33342 A, located approximately 1.26 miles east of the Site, with a depth to groundwater of 265 feet and a total depth of 280 feet. The water well is approximately 38 feet higher in elevation than the Site. The closest surface water to the Site is a seasonal arroyo located approximately 1,025 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. Based on these criteria, the following NMOCD Table 1 closure criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 2,500 mg/kg total petroleum hydrocarbons (TPH); 1,000 mg/kg TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO); and 20,000 mg/kg chloride.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

During April 2018, LTE personnel inspected the Site to evaluate and document the release areas. Excavation was scheduled for the stuffing box release area near the well head. No further remediation was required for the produced water tank release in the lined containment; the released fluid was recovered, and the liner was intact.

During July 2018, LTE personnel returned to the Site to oversee the excavation of impacted soil as indicated by field screening, surface staining, and the documented release area. Excavation activities commenced on July 6, 2018, and concluded on August 10, 2018. To delineate hydrocarbon and chloride impacts to soil and direct excavation activities, LTE screened soil using a photo-ionization detector (PID) and Hach® chloride QuanTab® test strips. Impacted soil was excavated from the release area to depths ranging from 10 feet to 13 feet bgs. Following removal of impacted soil, LTE collected discrete confirmation soil samples from the final lateral and vertical extents of the excavation as illustrated on Figure 2. Confirmation soil samples SW12 and SW14 through SW17 were collected from the sidewalls of the excavation from depths of 2 feet to 6 feet bgs. Confirmation soil samples FS05 and FS13 through FS15 were collected from the floor of the excavation from depths of 10 feet to 13 feet bgs. Soil sample nomenclature does not appear chronologically because some samples were submitted to the laboratory, however analysis was not requested or required and some samples were collected for field screening purposes only.

Excavation of the impacted soil was conducted prior to the Compliance Agreement and the August 14, 2018, NMOCD modification to 19.15.29 NMAC; however, since a closure report had not been submitted, this release was included in Tier II of the Compliance Agreement. Excavation confirmation soil samples were collected as discrete samples instead of composite samples. The area of impacted soil could be visually discerned, and the location of the release was well documented; therefore, LTE used experienced judgement for the sampling protocol, selecting sample locations based on visual observation to represent the floor and sidewalls of the excavation. The sampling protocol complied with *Guidance on Choosing a Sampling Design for Environmental Data Collection for Use in Developing a Quality Assurance Project Plan*, EPA QA/G-5S, December 2002.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, 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, Inc. (Xenco) in Midland, Texas, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) by USEPA Method 8015M/D, and chloride by USEPA Method 300.0.

The excavation measured approximately 3,000 square feet in area with a depth of 10 feet to 13 feet bgs. The horizontal extent of the excavation is illustrated on Figure 2. Approximately 1,660 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the Lea Land Landfill Facility in Hobbs, New Mexico, and the R30 Red Bluff Landfill Facility in Orla, Texas.

ANALYTICAL RESULTS

Laboratory analytical results for the confirmation sidewall samples (SW12 and SW14 through SW17) and the confirmation floor samples (FS05 and FS13 through FS15) collected from the final excavation extent indicated that BTEX, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria.

Upon review of the soil sample locations, it was determined that additional excavation sidewall samples were warranted from the southeast portion of the excavation. On January 15, 2019, LTE returned to the Site to collect 5-point composite soil samples SW01, SW02, SW03, and SW06 from the sidewalls of the excavation. The 5-point composite samples were collected by depositing 5 aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The final confirmation soil samples were collected after August 14, 2018, by composite sampling to comply with 19.15.29.12 NMAC. The soil samples were collected, handled, and analyzed as described above and submitted to Xenco in Midland, Texas.

Laboratory analytical results for the additional confirmation sidewall samples (SW01, SW02, SW03, and SW06) confirmed that BTEX, TPH, and chloride concentrations were compliant with

the NMOCD Table 1 closure criteria and no further excavation was required. Laboratory analytical results are presented on Figure 2 and summarized in Table 1, and the complete laboratory analytical reports are included as Attachment 2.

CONCLUSIONS

The impacted soil was excavated from the release area, and laboratory analytical results for the confirmation soil samples collected from the final excavation extent indicated that BTEX, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria. Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. XTO requests no further action for this release. Upon approval of the no further action request, XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. An updated NMOCD Form C-141 is included as Attachment 1. A photographic log of the Site is included as Attachment 3.

If you have any questions or comments, please do not hesitate to contact Ms. 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
Mike Bratcher, NMOCD
Jim Amos, BLM

Attachments:

Figure 1	Site Location Map
Figure 2	Final Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Initial/Final NMOCD Form C-141 (2RP-4706)
Attachment 2	Laboratory Analytical Reports
Attachment 3	Photographic Log

FIGURES

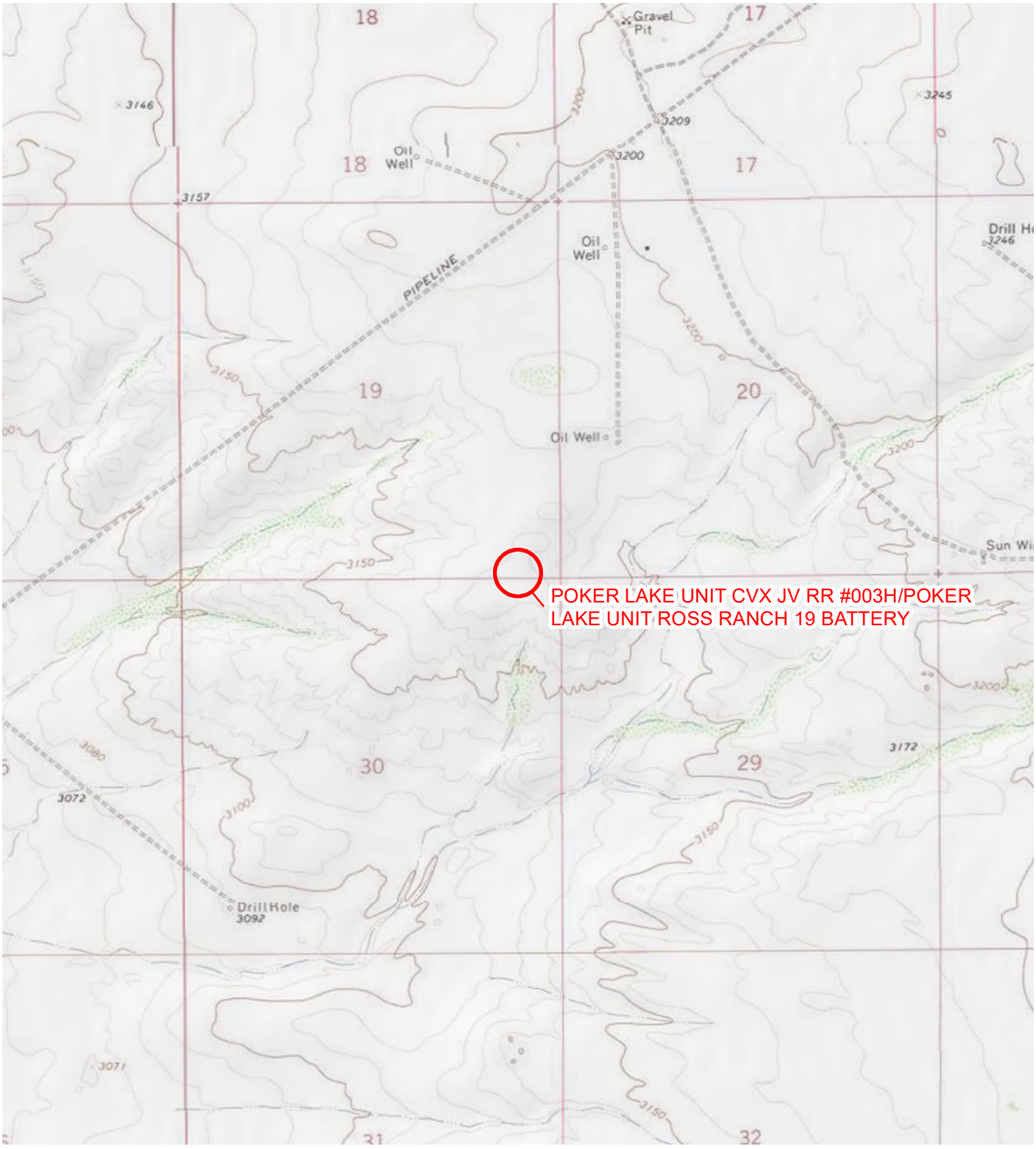


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

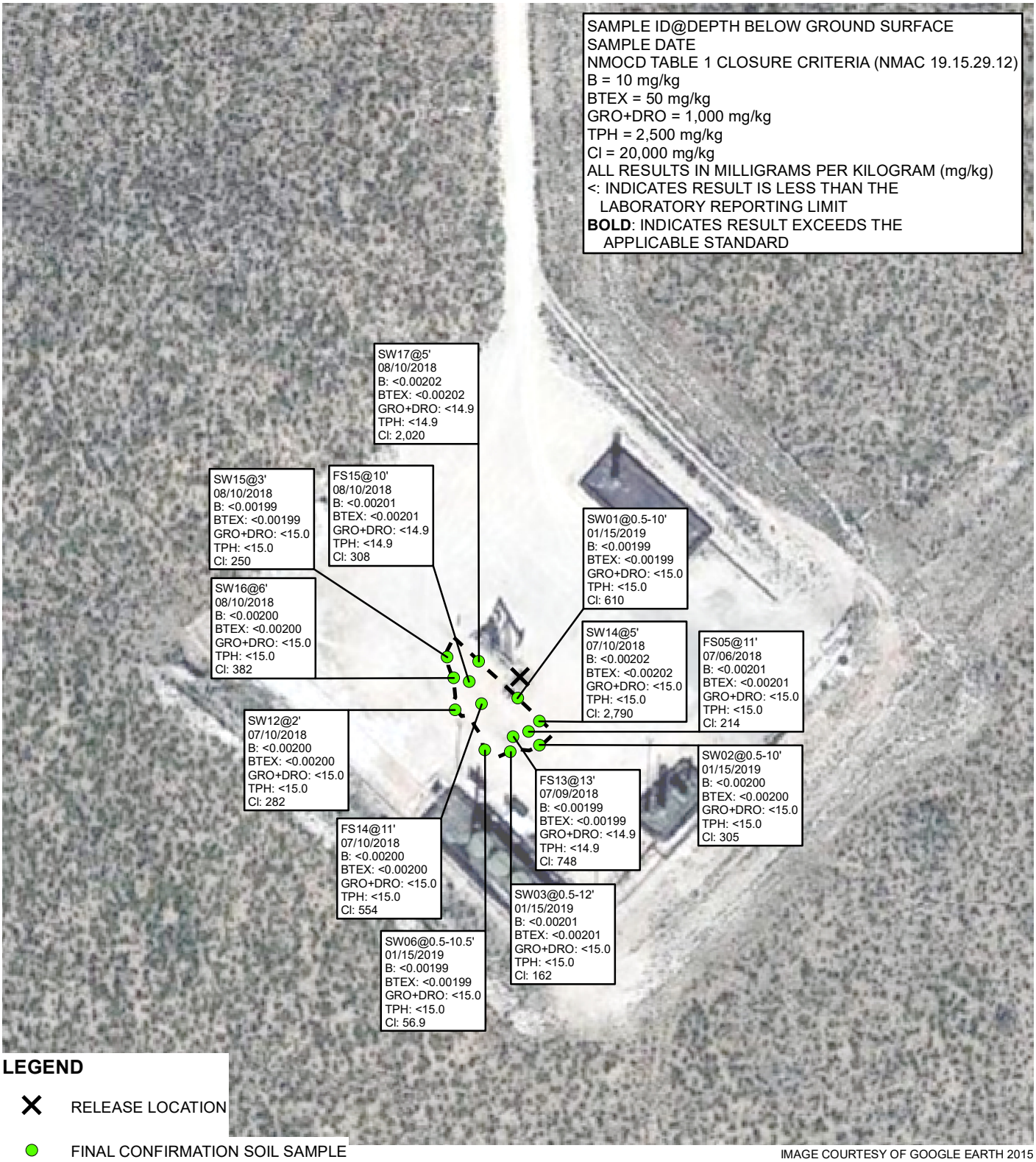
Feet

N

NOTE: REMEDIATION PERMIT NUMBER 2RP-4706

FIGURE 1
SITE LOCATION MAP
POKER LAKE UNIT CVX JV RR #003H/POKER LAKE UNIT ROSS RANCH 19 BATTERY
UNIT P SEC 19 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918103_PLU ROSS RANCH 19 FED BATTERY\012918103_FIG01_SL_2018_4706.mxd



B: BENZENE
BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
GRO – GASOLINE RANGE ORGANICS
DRO – DIESEL RANGE ORGANICS
TPH – TOTAL PETROLEUM HYDROCARBONS
Cl - CHLORIDE
NMAC – NEW MEXICO ADMINISTRATIVE CODE
NMOCD – NEW MEXICO OIL CONSERVATION DIVISION
NOTE: REMEDIATION PERMIT NUMBER 2RP-4706

FIGURE 2
FINAL SOIL SAMPLE LOCATIONS
POKER LAKE UNIT CVX JV RR #003H/POKER LAKE UNIT ROSS RANCH 19 BATTERY
UNIT P SEC 19 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918103_PLU ROSS RANCH 19 FED BATTERY\012918103_FIG02_SITE_2018_4706_011119.mxd

TABLE

TABLE 1
SOIL ANALYTICAL RESULTS

POKER LAKE UNIT CVX JV RR #003H/**POKER LAKE UNIT ROSS RANCH 19 BATTERY**
REMEDIATION PERMIT NUMBER 2RP-4706
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 GRO (mg/kg)	C10-C28 DRO (mg/kg)	C28-C40 ORO (mg/kg)	GRO and DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
FS05	11	07/06/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	214
FS13	13	07/09/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	<14.9	748
FS14	11	07/10/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	554
SW12	2	07/10/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	282
SW14	5	07/10/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	2,790
FS15	10	08/10/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	<14.9	308
SW15	3	08/10/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	250
SW16	6	08/10/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	382
SW17	5	08/10/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<14.9	<14.9	<14.9	<14.9	<14.9	2,020
SW01	0.5 - 10	01/15/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	610
SW02	0.5 - 10	01/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	305
SW03	0.5 - 12	01/15/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	162
SW06	0.5 - 10.5	01/15/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	56.9
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000

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
DRO - diesel range organics
GRO - gasoline range organics
ORO - oil range organics
TPH - total petroleum hydrocarbons
< - indicates result is below laboratory reporting limits
Bold - indicates result exceeds the applicable regulatory standard
Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018
NMAC - New Mexico Administrative Code

ATTACHMENT 1: INITIAL/FINAL NMOCD FORM C-141 (2RP-4706)

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

nAB1810729925 BOPP 2100737

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: XTO Energy	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No: 575-689-3380
Facility Name: Poker Lake Unit CVX JV RR #003H (and Poker Lake RR 19 Battery)	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No: 30-015-37800

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	19	25S	30E	100	South	480	East	Eddy

Latitude 32.108508° **Longitude** -103.913598° NAD83

NATURE OF RELEASE

Type of Release: Produced Water and Crude Oil	Volume of Release: 4 BO 110 BPW	Volume Recovered: 3.5 BO 103.5 BPW
Source of Release: Stuffing box and water tank	Date and Hour of Occurrence: 4/1/2018 time unknown	Date and Hour of Discovery: 4/1/2018 9:30 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/Crystal Weaver (NMOCD), Shelly Tucker/Jim Amos (BLM)	
By Whom? Amy Ruth	Date and Hour: 4/2/2018 11:44 am by email	
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.*
The well pumped off and caused fluid to release from stuffing box E-pot. The pumping unit power was switched off at main pole disconnect in order for the lease operator to wait at a safe distance for the wellhead to bleed down. The failed stuffing box packing and E-pot were replaced. Due to the power shut down and well repair, the water transfer pump for the battery was also not operating. This caused the water tank to overflow into the lined containment.

Describe Area Affected and Cleanup Action Taken.*
The release affected approximately 3,900 square feet of caliche pad surrounding the wellhead and the area within the lined battery containment. Free standing fluids were recovered from the ground. All fluids released to lined containment were recovered and returned to production. The tanks and containment were power washed. An environmental contractor has been retained to assist with delineation and remediation efforts.

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:
Printed Name: Amy Ruth
Title: Environmental Coordinator
E-mail Address: Amy_Ruth@xtoenergy.com
Date: 4/16/2018 Phone: 575-689-3380

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By: Mike Bratcher
Approval Date: 4/17/18 Expiration Date: N/A
Conditions of Approval: See attached
Attached ☐ 2RP-4706

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-4706
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432) 221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-4706
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.108508 Longitude -103.913598
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Poker Lake Unit CVX JV RR #003H/Poker Lake Unit Ross Ranch 19 Battery	Site Type: Exploration and Production
Date Release Discovered: April 1, 2018	API# *(if applicable)* 30-015-37800

Unit Letter	Section	Township	Range	County
P	19	25S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 4	Volume Recovered (bbls) 3.5
☒ Produced Water	Volume Released (bbls) 110	Volume Recovered (bbls) 103.5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
The well pumped off and caused fluid to release from stuffing box E-pot. The pumping unit power was switched off at main pole disconnect in order for the lease operator to wait at a safe distance for the wellhead to bleed down. The failed stuffing box packing and E-pot were replaced. Due to the power shut down and well repair, the water transfer pump for the battery was also not operating. This caused the water tank to overflow into the lined containment.
The release affected approximately 3,900 square feet of caliche pad surrounding the wellhead and the area within the lined battery containment. Free standing fluids were recovered from the ground. All fluids released to lined containment were recovered and returned to production.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4706
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kyle Littrell Title: SH&E Coordinator

Signature: Date: 02/05/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4706
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4706
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kyle Littrell Title: SH&E Coordinator

Signature: Date: 02/05/2019

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4706
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Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kyle Littrell Title: SH&E Coordinator

Signature: Date: 02/05/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Brittany Hall Date: 2/24/2023

Printed Name: Brittany Hall Title: Environmental Specialist

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS

Analytical Report 592018

for

LT Environmental, Inc.

Project Manager: Adrian Baker

PLU Ross Ranch 19 FED

10-DEC-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

10-DEC-18

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

Reference: XENCO Report No(s): **592018**
PLU Ross Ranch 19 FED
Project Address: Eddy County, 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) 592018. 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. 592018 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

Sample Cross Reference 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BG01	S	07-10-18 13:55	.5 ft	592018-001
FS05	S	07-06-18 09:05	11 ft	592018-002
FS13	S	07-09-18 14:50	13 ft	592018-003
FS14	S	07-10-18 14:35	11 ft	592018-004
SW12	S	07-10-18 12:30	2 ft	592018-006
SW14	S	07-10-18 13:10	5 ft	592018-008
SW11	S	07-10-18 12:10	3 ft	Not Analyzed
SW13	S	07-10-18 13:05	5 ft	Not Analyzed

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU Ross Ranch 19 FED

Project ID:
Work Order Number(s): *592018*

Report Date: *10-DEC-18*
Date Received: *07/12/2018*

Sample receipt non conformances and comments:

per clients email, took samples 2,3,4,6 and 8 to be ran for CL, 8015, BTEX. Standard TAT. JKR 07/16/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3056801 BTEX by EPA 8021B

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

Certificate of Analysis Summary 592018

LT Environmental, Inc., Arvada, CO

Project Name: PLU Ross Ranch 19 FED

Project Id:
Contact: Adrian Baker
Project Location: Eddy County, NM

Date Received in Lab: Thu Jul-12-18 11:00 am
Report Date: 10-DEC-18
Project Manager: Jessica Kramer

Analysis Requested																			
	Lab Id:	592018-001		592018-002		592018-003		592018-004		592018-006		592018-008							
	Field Id:	BG01		FS05		FS13		FS14		SW12		SW14							
	Depth:	.5- ft		11- ft		13- ft		11- ft		2- ft		5- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL							
	Sampled:	Jul-10-18 13:55		Jul-06-18 09:05		Jul-09-18 14:50		Jul-10-18 14:35		Jul-10-18 12:30		Jul-10-18 13:10							
BTEX by EPA 8021B	***Extracted:***			Jul-17-18 16:00		Jul-17-18 16:00		Jul-17-18 16:00		Jul-17-18 16:00		Jul-17-18 16:00							
	Analyzed:			Jul-18-18 04:32		Jul-18-18 04:50		Jul-18-18 05:08		Jul-18-18 05:26		Jul-18-18 05:44							
	Units/RL:			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene				<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202						
Toluene				<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202						
Ethylbenzene				<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202						
m,p-Xylenes				<0.00402	0.00402	<0.00398	0.00398	<0.00399	0.00399	<0.00401	0.00401	<0.00403	0.00403						
o-Xylene				<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202						
Total Xylenes				<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202						
Total BTEX				<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202						
Inorganic Anions by EPA 300	***Extracted:***	Jul-12-18 15:00		Jul-18-18 16:00		Jul-18-18 16:00		Jul-18-18 16:00		Jul-18-18 16:00		Jul-18-18 16:00							
	Analyzed:	Jul-12-18 18:05		Jul-18-18 18:02		Jul-18-18 18:07		Jul-18-18 18:13		Jul-18-18 17:46		Jul-18-18 18:18							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		28.5	5.00	214	25.3	748	4.97	554	5.00	282	5.00	2790	24.9						
TPH by SW8015 Mod	***Extracted:***			Jul-16-18 17:00		Jul-16-18 17:00		Jul-16-18 17:00		Jul-16-18 17:00		Jul-16-18 17:00							
	Analyzed:			Jul-16-18 20:02		Jul-16-18 21:00		Jul-16-18 21:20		Jul-16-18 21:39		Jul-16-18 21:59							
	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	<14.9	14.9	<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						
Oil Range Hydrocarbons (ORO)				<15.0	15.0	<14.9	14.9	<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						

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

Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**BG01**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-001	Date Collected:	07.10.18 13.55	Sample Depth:	.5 ft
Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.12.18 15.00	Basis:	Wet Weight
Seq Number:	3056282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**28.5**	5.00	mg/kg	07.12.18 18.05		1

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-002	Date Collected:	07.06.18 09.05	Sample Depth:	11 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.18.18 16.00	Basis:	Wet Weight
Seq Number:	3056961				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**214**	25.3	mg/kg	07.18.18 18.02		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.16.18 17.00	Basis:	Wet Weight
Seq Number:	3056702				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.16.18 20.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.16.18 20.02	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.16.18 20.02	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.16.18 20.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	07.16.18 20.02	
o-Terphenyl	84-15-1	105	%	70-135	07.16.18 20.02	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-002	Date Collected:	07.06.18 09.05	Sample Depth:	11 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.17.18 16.00	Basis:	Wet Weight
Seq Number:	3056801				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.18.18 04.32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.18.18 04.32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.18.18 04.32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.18.18 04.32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.18.18 04.32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.18.18 04.32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.18.18 04.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	07.18.18 04.32	
1,4-Difluorobenzene	540-36-3	79	%	70-130	07.18.18 04.32	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-003	Date Collected:	07.09.18 14.50	Sample Depth:	13 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.18.18 16.00	Basis:	Wet Weight
Seq Number:	3056961				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**748**	4.97	mg/kg	07.18.18 18.07		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.16.18 17.00	Basis:	Wet Weight
Seq Number:	3056702				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.16.18 21.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	07.16.18 21.00	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	07.16.18 21.00	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	07.16.18 21.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	07.16.18 21.00	
o-Terphenyl	84-15-1	103	%	70-135	07.16.18 21.00	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-003	Date Collected:	07.09.18 14.50	Sample Depth:	13 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.17.18 16.00	Basis:	Wet Weight
Seq Number:	3056801				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.18.18 04.50	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.18.18 04.50	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.18.18 04.50	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.18.18 04.50	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.18.18 04.50	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.18.18 04.50	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.18.18 04.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	82	%	70-130	07.18.18 04.50	
1,4-Difluorobenzene	540-36-3	77	%	70-130	07.18.18 04.50	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-004	Date Collected:	07.10.18 14.35	Sample Depth:	11 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.18.18 16.00	Basis:	Wet Weight
Seq Number:	3056961				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**554**	5.00	mg/kg	07.18.18 18.13		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.16.18 17.00	Basis:	Wet Weight
Seq Number:	3056702				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.16.18 21.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.16.18 21.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.16.18 21.20	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.16.18 21.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	07.16.18 21.20	
o-Terphenyl	84-15-1	104	%	70-135	07.16.18 21.20	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-004	Date Collected:	07.10.18 14.35	Sample Depth:	11 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.17.18 16.00	Basis:	Wet Weight
Seq Number:	3056801				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.18.18 05.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.18.18 05.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.18.18 05.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.18.18 05.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.18.18 05.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.18.18 05.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.18.18 05.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	07.18.18 05.08	
4-Bromofluorobenzene	460-00-4	94	%	70-130	07.18.18 05.08	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**SW12**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-006	Date Collected:	07.10.18 12.30	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.18.18 16.00	Basis:	Wet Weight
Seq Number:	3056961				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**282**	5.00	mg/kg	07.18.18 17.46		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.16.18 17.00	Basis:	Wet Weight
Seq Number:	3056702				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.16.18 21.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.16.18 21.39	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.16.18 21.39	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.16.18 21.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	07.16.18 21.39	
o-Terphenyl	84-15-1	104	%	70-135	07.16.18 21.39	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**SW12**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-006	Date Collected:	07.10.18 12.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.17.18 16.00	Basis:	Wet Weight
Seq Number:	3056801				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.18.18 05.26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.18.18 05.26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.18.18 05.26	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.18.18 05.26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.18.18 05.26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.18.18 05.26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.18.18 05.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.18.18 05.26	
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.18.18 05.26	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**SW14**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-008	Date Collected:	07.10.18 13.10	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.18.18 16.00	Basis:	Wet Weight
Seq Number:	3056961				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2790**	24.9	mg/kg	07.18.18 18.18		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	07.16.18 17.00	Basis:	Wet Weight
Seq Number:	3056702				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.16.18 21.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.16.18 21.59	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.16.18 21.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.16.18 21.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	07.16.18 21.59	
o-Terphenyl	84-15-1	100	%	70-135	07.16.18 21.59	

Certificate of Analytical Results 592018

LT Environmental, Inc., Arvada, CO

PLU Ross Ranch 19 FED

Sample Id:	**SW14**	Matrix:	Soil	Date Received:	07.12.18 11.00
Lab Sample Id:	592018-008	Date Collected:	07.10.18 13.10	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	07.17.18 16.00	Basis:	Wet Weight
Seq Number:	3056801				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.18.18 05.44	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.18.18 05.44	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.18.18 05.44	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.18.18 05.44	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.18.18 05.44	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.18.18 05.44	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.18.18 05.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	07.18.18 05.44	
1,4-Difluorobenzene	540-36-3	90	%	70-130	07.18.18 05.44	

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 592018

LT Environmental, Inc.

PLU Ross Ranch 19 FED

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3056282 — Matrix: Solid — Date Prep: 07.12.18
MB Sample Id: 7658306-1-BLK — LCS Sample Id: 7658306-1-BKS — LCSD Sample Id: 7658306-1-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	264	106	263	105	90-110	0	20	mg/kg	07.12.18 17:06	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3056961 — Matrix: Solid — Date Prep: 07.18.18
MB Sample Id: 7658662-1-BLK — LCS Sample Id: 7658662-1-BKS — LCSD Sample Id: 7658662-1-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	251	100	250	100	90-110	0	20	mg/kg	07.18.18 17:35	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3056282 — Matrix: Soil — Date Prep: 07.12.18
Parent Sample Id: 591481-007 — MS Sample Id: 591481-007 S — MSD Sample Id: 591481-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.94	247	255	103	246	100	90-110	4	20	mg/kg	07.12.18 17:22	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3056282 — Matrix: Soil — Date Prep: 07.12.18
Parent Sample Id: 592020-001 — MS Sample Id: 592020-001 S — MSD Sample Id: 592020-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	163	248	405	98	405	98	90-110	0	20	mg/kg	07.12.18 18:47	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3056961 — Matrix: Soil — Date Prep: 07.18.18
Parent Sample Id: 592018-006 — MS Sample Id: 592018-006 S — MSD Sample Id: 592018-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	282	250	532	100	522	96	90-110	2	20	mg/kg	07.18.18 17:51	

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 592018

LT Environmental, Inc.

PLU Ross Ranch 19 FED

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3056961 Matrix: Soil Date Prep: 07.18.18
Parent Sample Id: 592472-001 MS Sample Id: 592472-001 S MSD Sample Id: 592472-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	83.3	248	334	101	334	101	90-110	0	20	mg/kg	07.18.18 19:07	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3056702 Matrix: Solid Date Prep: 07.16.18
MB Sample Id: 7658490-1-BLK LCS Sample Id: 7658490-1-BKS LCSD Sample Id: 7658490-1-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	1030	103	70-135	1	20	mg/kg	07.16.18 19:22	
Diesel Range Organics (DRO)	<15.0	1000	1040	104	1070	107	70-135	3	20	mg/kg	07.16.18 19:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		121		125		70-135	%	07.16.18 19:22
o-Terphenyl	109		117		117		70-135	%	07.16.18 19:22

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3056702 Matrix: Soil Date Prep: 07.16.18
Parent Sample Id: 592018-002 MS Sample Id: 592018-002 S MSD Sample Id: 592018-002 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	999	1080	108	1110	111	70-135	3	20	mg/kg	07.16.18 20:21	
Diesel Range Organics (DRO)	<15.0	999	1100	110	1100	110	70-135	0	20	mg/kg	07.16.18 20:21	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		128		70-135	%	07.16.18 20:21
o-Terphenyl	128		129		70-135	%	07.16.18 20:21

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 592018

LT Environmental, Inc.

PLU Ross Ranch 19 FED

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

Seq Number: 3056801 Matrix: Solid Date Prep: 07.17.18

MB Sample Id: 7658578-1-BLK LCS Sample Id: 7658578-1-BKS LCSD Sample Id: 7658578-1-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	0.0998	0.0944	95	0.110	110	70-130	15	35	mg/kg	07.18.18 02:10	
Toluene	<0.00200	0.0998	0.0972	97	0.106	106	70-130	9	35	mg/kg	07.18.18 02:10	
Ethylbenzene	<0.00200	0.0998	0.0942	94	0.103	103	70-130	9	35	mg/kg	07.18.18 02:10	
m,p-Xylenes	<0.00399	0.200	0.195	98	0.212	105	70-130	8	35	mg/kg	07.18.18 02:10	
o-Xylene	<0.00200	0.0998	0.0908	91	0.0994	99	70-130	9	35	mg/kg	07.18.18 02:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		90		96		70-130	%	07.18.18 02:10
4-Bromofluorobenzene	102		104		101		70-130	%	07.18.18 02:10

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

Seq Number: 3056801 Matrix: Soil Date Prep: 07.17.18

Parent Sample Id: 592472-001 MS Sample Id: 592472-001 S MSD Sample Id: 592472-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0740	74	0.0723	72	70-130	2	35	mg/kg	07.18.18 02:46	
Toluene	<0.00199	0.0996	0.0693	70	0.0777	78	70-130	11	35	mg/kg	07.18.18 02:46	
Ethylbenzene	<0.00199	0.0996	0.0660	66	0.0651	65	70-130	1	35	mg/kg	07.18.18 02:46	X
m,p-Xylenes	<0.00398	0.199	0.136	68	0.136	68	70-130	0	35	mg/kg	07.18.18 02:46	X
o-Xylene	<0.00199	0.0996	0.0642	64	0.0658	66	70-130	2	35	mg/kg	07.18.18 02:46	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		97		70-130	%	07.18.18 02:46
4-Bromofluorobenzene	73		89		70-130	%	07.18.18 02:46

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	

XENCO LABORATORIES

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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

CHAIN OF CUSTODY

Page ___ Of ___

Xenco Quote # | Xenco Job # 592018

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: MARK GELBAND

Project Information

Project Name/Number: PLU ROSS RANCH 19 FED
Project Location: EDDY COUNTY, NM
Invoice To: XTO Energy - Kyle Littrell
PO Number:

Analytical Information

BTEX 8021 (only BTEX)
TPH (MRO GRO DRO) 8015
Chloride (300.0)

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
1	BG01	0.5'	07/10/18	1355	S	1								X
2	FS05	11'	07/10/18	0905		1								
3	FS13	13'	07/09/18	1450		1								
4	FS14	11'	07/10/18	1435		1								
5	SW11	3'		1210		1								
6	SW12	2'		1230		1								
7	SW13	5'		1305		1								
8	SW14	5'		1310		1								
9														
10														

Field Comments: X RUSH TAT
HOLD SAMPLES SEE NOTE.

Turnaround Time (Business days)

- [X] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY
- TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [X] 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:

HOLD SAMPLES ~~FS01~~ FS05 FS13 MG 07/11/2018 FS14, SW11, SW12, SW13, AND SW14 UNTIL RESULTS ARE AVAILABLE FOR BG01 AND MARK GELBAND AUTHORIZES ADDITIONAL (575)

FED-EX / UPS: Tracking # 772685842857

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	Mark Gelband	07/11/2018 0939	1	2	7/11 15:30	2 Kelli Lee 7/12/18 11:00
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice: X; Cooler Temp. 4.1; Thermo. Corr. Factor R80.0

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.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 07/12/2018 11:00:00 AM

Work Order #: 592018

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)?	4.1
#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: Katie Lowe Date: 07/12/2018

Checklist reviewed by: Jessica Kramer Date: 07/12/2018

Jessica Kramer

Analytical Report 595676

for

LT Environmental, Inc.

Project Manager: Adrian Baker

PLU RR 19 Fed

23-AUG-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
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)

23-AUG-18

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

Reference: XENCO Report No(s): **595676**
PLU RR 19 Fed
Project Address: Eddy 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) 595676. 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. 595676 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

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

Sample Cross Reference 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW15	S	08-10-18 10:00	3 ft	595676-001
SW16	S	08-10-18 15:35	6 ft	595676-002
SW17	S	08-10-18 15:30	5 ft	595676-003
FS15	S	08-10-18 15:40	10 ft	595676-004

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU RR 19 Fed

Project ID:
Work Order Number(s): *595676*

Report Date: *23-AUG-18*
Date Received: *08/14/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3060904 BTEX by EPA 8021B

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

Certificate of Analysis Summary 595676

LT Environmental, Inc., Arvada, CO

Project Name: PLU RR 19 Fed

Project Id:
Contact: Adrian Baker
Project Location: Eddy NM

Date Received in Lab: Tue Aug-14-18 01:26 pm
Report Date: 23-AUG-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	595676-001		595676-002		595676-003		595676-004					
	Field Id:	SW15		SW16		SW17		FS15					
	Depth:	3- ft		6- ft		5- ft		10- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Aug-10-18 10:00		Aug-10-18 15:35		Aug-10-18 15:30		Aug-10-18 15:40					
BTEX by EPA 8021B	***Extracted:***	Aug-22-18 15:00		Aug-22-18 15:00		Aug-22-18 15:00		Aug-22-18 15:00					
	Analyzed:	Aug-22-18 21:59		Aug-22-18 22:20		Aug-22-18 22:41		Aug-22-18 23:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00403	0.00403	<0.00402	0.00402				
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201				
Inorganic Anions by EPA 300	***Extracted:***	Aug-15-18 16:45		Aug-15-18 16:45		Aug-15-18 16:45		Aug-15-18 16:45					
	Analyzed:	Aug-15-18 21:30		Aug-15-18 21:36		Aug-15-18 21:41		Aug-15-18 21:47					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		250	49.5	382	24.8	2020	25.0	308	24.8				
TPH by SW8015 Mod	***Extracted:***	Aug-15-18 11:00		Aug-15-18 11:00		Aug-15-18 11:00		Aug-15-18 11:00					
	Analyzed:	Aug-15-18 17:26		Aug-15-18 17:46		Aug-15-18 18:06		Aug-15-18 18:26					
	Units/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	<14.9	14.9	<14.9	14.9				
Diesel Range Organics (DRO)		<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	<14.9	14.9	<14.9	14.9				
Total TPH		<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9				

Jessica Kramer
Project Assistant

Certificate of Analytical Results 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id:	**SW15**	Matrix:	Soil	Date Received:	08.14.18 13.26
Lab Sample Id:	595676-001	Date Collected:	08.10.18 10.00	Sample Depth:	3 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	08.15.18 16.45	Basis:	Wet Weight
Seq Number:	3060255				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**250**	49.5	mg/kg	08.15.18 21.30		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	08.15.18 11.00	Basis:	Wet Weight
Seq Number:	3060224				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.15.18 17.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.15.18 17.26	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.15.18 17.26	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.15.18 17.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	08.15.18 17.26	
o-Terphenyl	84-15-1	81	%	70-135	08.15.18 17.26	

Certificate of Analytical Results 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id:	**SW15**	Matrix:	Soil	Date Received:	08.14.18 13.26
Lab Sample Id:	595676-001	Date Collected:	08.10.18 10.00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.22.18 15.00	Basis:	Wet Weight
Seq Number:	3060904				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.22.18 21.59	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.22.18 21.59	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.22.18 21.59	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.22.18 21.59	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.22.18 21.59	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.22.18 21.59	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.22.18 21.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	08.22.18 21.59	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.22.18 21.59	

Certificate of Analytical Results 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id:	**SW16**	Matrix:	Soil	Date Received:	08.14.18 13.26
Lab Sample Id:	595676-002	Date Collected:	08.10.18 15.35	Sample Depth:	6 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	08.15.18 16.45	Basis:	Wet Weight
Seq Number:	3060255				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**382**	24.8	mg/kg	08.15.18 21.36		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	08.15.18 11.00	Basis:	Wet Weight
Seq Number:	3060224				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.15.18 17.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.15.18 17.46	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.15.18 17.46	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.15.18 17.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	08.15.18 17.46	
o-Terphenyl	84-15-1	86	%	70-135	08.15.18 17.46	

Certificate of Analytical Results 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id:	**SW16**	Matrix:	Soil	Date Received:	08.14.18 13.26
Lab Sample Id:	595676-002	Date Collected:	08.10.18 15.35	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.22.18 15.00	Basis:	Wet Weight
Seq Number:	3060904				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.22.18 22.20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.22.18 22.20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.22.18 22.20	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.22.18 22.20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.22.18 22.20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.22.18 22.20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.22.18 22.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.22.18 22.20	
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.22.18 22.20	

Certificate of Analytical Results 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id:	**SW17**	Matrix:	Soil	Date Received:	08.14.18 13.26
Lab Sample Id:	595676-003	Date Collected:	08.10.18 15.30	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	08.15.18 16.45	Basis:	Wet Weight
Seq Number:	3060255				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2020**	25.0	mg/kg	08.15.18 21.41		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	08.15.18 11.00	Basis:	Wet Weight
Seq Number:	3060224				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	08.15.18 18.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	08.15.18 18.06	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	08.15.18 18.06	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	08.15.18 18.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	08.15.18 18.06	
o-Terphenyl	84-15-1	89	%	70-135	08.15.18 18.06	

Certificate of Analytical Results 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id:	**SW17**	Matrix:	Soil	Date Received:	08.14.18 13.26
Lab Sample Id:	595676-003	Date Collected:	08.10.18 15.30	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.22.18 15.00	Basis:	Wet Weight
Seq Number:	3060904				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.22.18 22.41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.22.18 22.41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.22.18 22.41	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.22.18 22.41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.22.18 22.41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.22.18 22.41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.22.18 22.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.22.18 22.41	
1,4-Difluorobenzene	540-36-3	98	%	70-130	08.22.18 22.41	

Certificate of Analytical Results 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	08.14.18 13.26
Lab Sample Id:	595676-004	Date Collected:	08.10.18 15.40	Sample Depth:	10 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	08.15.18 16.45	Basis:	Wet Weight
Seq Number:	3060255				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**308**	24.8	mg/kg	08.15.18 21.47		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	08.15.18 11.00	Basis:	Wet Weight
Seq Number:	3060224				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	08.15.18 18.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	08.15.18 18.26	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	08.15.18 18.26	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	08.15.18 18.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	08.15.18 18.26	
o-Terphenyl	84-15-1	89	%	70-135	08.15.18 18.26	

Certificate of Analytical Results 595676

LT Environmental, Inc., Arvada, CO

PLU RR 19 Fed

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	08.14.18 13.26
Lab Sample Id:	595676-004	Date Collected:	08.10.18 15.40	Sample Depth:	10 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	08.22.18 15.00	Basis:	Wet Weight
Seq Number:	3060904				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.22.18 23.01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.22.18 23.01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.22.18 23.01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.22.18 23.01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.22.18 23.01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.22.18 23.01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.22.18 23.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.22.18 23.01	
1,4-Difluorobenzene	540-36-3	101	%	70-130	08.22.18 23.01	

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 595676

LT Environmental, Inc.

PLU RR 19 Fed

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3060255 Matrix: Solid Date Prep: 08.15.18
MB Sample Id: 7660544-1-BLK LCS Sample Id: 7660544-1-BKS LCSD Sample Id: 7660544-1-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	249	100	256	102	90-110	3	20	mg/kg	08.15.18 19:19	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3060255 Matrix: Soil Date Prep: 08.15.18
Parent Sample Id: 595769-001 MS Sample Id: 595769-001 S MSD Sample Id: 595769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	364	250	600	94	604	96	90-110	1	20	mg/kg	08.15.18 19:35	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3060255 Matrix: Soil Date Prep: 08.15.18
Parent Sample Id: 595769-002 MS Sample Id: 595769-002 S MSD Sample Id: 595769-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	93.7	249	349	103	355	105	90-110	2	20	mg/kg	08.15.18 20:52	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3060224 Matrix: Solid Date Prep: 08.15.18
MB Sample Id: 7660477-1-BLK LCS Sample Id: 7660477-1-BKS LCSD Sample Id: 7660477-1-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	882	88	969	97	70-135	9	20	mg/kg	08.15.18 14:07	
Diesel Range Organics (DRO)	<15.0	1000	914	91	962	96	70-135	5	20	mg/kg	08.15.18 14:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		126		112		70-135	%	08.15.18 14:07
o-Terphenyl	90		98		93		70-135	%	08.15.18 14:07

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 595676

LT Environmental, Inc.

PLU RR 19 Fed

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3060224 | Matrix: Soil | Date Prep: 08.15.18
Parent Sample Id: 595675-001 | MS Sample Id: 595675-001 S | MSD Sample Id: 595675-001 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)	37.3	1000	885	85	891	85	70-135	1	20	mg/kg	08.15.18 15:06	
Diesel Range Organics (DRO)	298	1000	1240	94	1230	93	70-135	1	20	mg/kg	08.15.18 15:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		108		70-135	%	08.15.18 15:06
o-Terphenyl	95		95		70-135	%	08.15.18 15:06

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3060904 | Matrix: Solid | Date Prep: 08.22.18
MB Sample Id: 7660920-1-BLK | LCS Sample Id: 7660920-1-BKS | LCSD Sample Id: 7660920-1-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	0.0998	0.0957	96	0.0970	97	70-130	1	35	mg/kg	08.22.18 10:36	
Toluene	<0.00200	0.0998	0.0911	91	0.0937	94	70-130	3	35	mg/kg	08.22.18 10:36	
Ethylbenzene	<0.00200	0.0998	0.100	100	0.104	104	70-130	4	35	mg/kg	08.22.18 10:36	
m,p-Xylenes	<0.00399	0.200	0.216	108	0.234	116	70-130	8	35	mg/kg	08.22.18 10:36	
o-Xylene	<0.00200	0.0998	0.103	103	0.112	112	70-130	8	35	mg/kg	08.22.18 10:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		104		112		70-130	%	08.22.18 10:36
4-Bromofluorobenzene	92		100		104		70-130	%	08.22.18 10:36

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3060904 | Matrix: Soil | Date Prep: 08.22.18
Parent Sample Id: 595901-001 | MS Sample Id: 595901-001 S | MSD Sample Id: 595901-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0677	67	0.0655	66	70-130	3	35	mg/kg	08.22.18 12:08	X
Toluene	<0.00202	0.101	0.0655	65	0.0622	62	70-130	5	35	mg/kg	08.22.18 12:08	X
Ethylbenzene	<0.00202	0.101	0.0684	68	0.0647	65	70-130	6	35	mg/kg	08.22.18 12:08	X
m,p-Xylenes	<0.00403	0.202	0.143	71	0.137	69	70-130	4	35	mg/kg	08.22.18 12:08	X
o-Xylene	<0.00202	0.101	0.0673	67	0.0632	63	70-130	6	35	mg/kg	08.22.18 12:08	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		129		70-130	%	08.22.18 12:08
4-Bromofluorobenzene	106		110		70-130	%	08.22.18 12:08

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

XENCO LABORATORIES

Setting the Standard since 1990

Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)
San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)
Phoenix, Arizona (480-355-0900)
www.xenco.com

CHAIN OF CUSTODY

Page 1 Of 1

Xenco Quote #

Xenco Job # 595676

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc Permian
Company Address: 3300 N "A" St., Building 1, Unit #103, Midland Tx 79705
Email: abaker@ltenv.com
Phone No: 432 794-5178
Project Contact: Adrian Baker
Samplers's Name: Lynden Lambach

Project Information

Project Name/Number: PLU RR 19 Fed
Project Location: Eddy NM
Invoice To: XTO Energy - Kyle Littrell
PO Number:

Analytical Information

BTEX 8021 (only BTEX)
TPH (GRO, DRO, 8015)
Chloride (300.0)

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	Sample Depth	Collection Date	Collection Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	SW15	3'	08/10/18	10:00	S	1								X	3 feet
2	SW16	6'	↓	15:35	S	1								X	
3	SW17	5'		15:30	S	1								X	
4	FS15	10'	↓	15:40	S	1								X	
5															
6															
7															
8															
9															
10															

08/10/18

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 # 772964686598

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		08/13/18 10:35				
2					8/13/18 15:30	8/14/18 1320
3						
4						
5						

Custody Seal #

Preserved where applicable

On Ice: ✓ Cooler Temp. 4.4 R 0.0 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.

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 08/14/2018 01:26:00 PM

Work Order #: 595676

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)?	4.4
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**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: Shawnee Gomez Date: 08/14/2018

Shawnee Gomez

Checklist reviewed by: Jessica Kramer Date: 08/14/2018

Jessica Kramer

Analytical Report 611644

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Poker Lake Unit RR 19 Battery

21-JAN-19

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

21-JAN-19

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

Reference: XENCO Report No(s): **611644**
Poker Lake Unit RR 19 Battery
Project Address: Delaware Basin

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) 611644. 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. 611644 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

Sample Cross Reference 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	01-15-19 10:40	0.5 - 10 ft	611644-001
SW02	S	01-15-19 10:45	0.5 - 10 ft	611644-002
SW03	S	01-15-19 10:50	0.5 - 12 ft	611644-003
SW06	S	01-15-19 10:55	0.5 - 10.5 ft	611644-004

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Poker Lake Unit RR 19 Battery

Project ID:
Work Order Number(s): *611644*

Report Date: *21-JAN-19*
Date Received: *01/17/2019*

Sample receipt non conformances and comments:

Per clients email, corrected sample depths. NEW VERSION GENERATED. 01/21/19 JK
SW03 0.2-12'
SW06 0.5-10.5'

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3076200 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 611644

LT Environmental, Inc., Arvada, CO

Project Name: Poker Lake Unit RR 19 Battery

Project Id:
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Thu Jan-17-19 12:05 pm
Report Date: 21-JAN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	611644-001		611644-002		611644-003		611644-004					
	Field Id:	SW01		SW02		SW03		SW06					
	Depth:	0.5-10 ft		0.5-10 ft		0.5-12 ft		0.5-10.5 ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jan-15-19 10:40		Jan-15-19 10:45		Jan-15-19 10:50		Jan-15-19 10:55					
BTEX by EPA 8021B	***Extracted:***	Jan-17-19 16:00		Jan-17-19 16:00		Jan-17-19 16:00		Jan-17-19 16:00					
	Analyzed:	Jan-18-19 01:49		Jan-18-19 02:08		Jan-18-19 02:27		Jan-18-19 02:46					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199				
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199				
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199				
m,p-Xylenes		<0.00398	0.00398	<0.00400	0.00400	<0.00402	0.00402	<0.00398	0.00398				
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199				
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199				
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199				
Inorganic Anions by EPA 300	***Extracted:***	Jan-17-19 16:00		Jan-17-19 16:00		Jan-17-19 16:00		Jan-17-19 16:00					
	Analyzed:	Jan-17-19 23:55		Jan-18-19 00:01		Jan-18-19 00:08		Jan-18-19 00:29					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		610	49.5	305	24.8	162	49.8	56.9	49.9				
TPH by SW8015 Mod	***Extracted:***	Jan-18-19 08:30		Jan-18-19 08:30		Jan-18-19 08:30		Jan-18-19 08:30					
	Analyzed:	Jan-18-19 11:43		Jan-18-19 12:43		Jan-18-19 13:03		Jan-18-19 13:23					
	Units/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				
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				

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

Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analytical Results 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	01.17.19 12.05
Lab Sample Id:	611644-001	Date Collected:	01.15.19 10.40	Sample Depth:	0.5 - 10 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.17.19 16.00	Basis:	Wet Weight
Seq Number:	3076282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**610**	49.5	mg/kg	01.17.19 23.55		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	01.18.19 08.30	Basis:	Wet Weight
Seq Number:	3076301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 11.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.18.19 11.43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 11.43	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.18.19 11.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	01.18.19 11.43	
o-Terphenyl	84-15-1	87	%	70-135	01.18.19 11.43	

Certificate of Analytical Results 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	01.17.19 12.05
Lab Sample Id:	611644-001	Date Collected:	01.15.19 10.40	Sample Depth:	0.5 - 10 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	01.17.19 16.00	Basis:	Wet Weight
Seq Number:	3076200				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.18.19 01.49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.18.19 01.49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.18.19 01.49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.18.19 01.49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.18.19 01.49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.18.19 01.49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.18.19 01.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	01.18.19 01.49	
1,4-Difluorobenzene	540-36-3	112	%	70-130	01.18.19 01.49	

Certificate of Analytical Results 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	01.17.19 12.05
Lab Sample Id:	611644-002	Date Collected:	01.15.19 10.45	Sample Depth:	0.5 - 10 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.17.19 16.00	Basis:	Wet Weight
Seq Number:	3076282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**305**	24.8	mg/kg	01.18.19 00.01		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	01.18.19 08.30	Basis:	Wet Weight
Seq Number:	3076301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 12.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.18.19 12.43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 12.43	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.18.19 12.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	01.18.19 12.43	
o-Terphenyl	84-15-1	91	%	70-135	01.18.19 12.43	

Certificate of Analytical Results 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	01.17.19 12.05
Lab Sample Id:	611644-002	Date Collected:	01.15.19 10.45	Sample Depth:	0.5 - 10 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	01.17.19 16.00	Basis:	Wet Weight
Seq Number:	3076200				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.18.19 02.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.18.19 02.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.18.19 02.08	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.18.19 02.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.18.19 02.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.18.19 02.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.18.19 02.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.18.19 02.08	
1,4-Difluorobenzene	540-36-3	110	%	70-130	01.18.19 02.08	

Certificate of Analytical Results 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	01.17.19 12.05
Lab Sample Id:	611644-003	Date Collected:	01.15.19 10.50	Sample Depth:	0.5 - 12 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.17.19 16.00	Basis:	Wet Weight
Seq Number:	3076282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**162**	49.8	mg/kg	01.18.19 00.08		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	01.18.19 08.30	Basis:	Wet Weight
Seq Number:	3076301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 13.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.18.19 13.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 13.03	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.18.19 13.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	01.18.19 13.03	
o-Terphenyl	84-15-1	107	%	70-135	01.18.19 13.03	

Certificate of Analytical Results 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	01.17.19 12.05
Lab Sample Id:	611644-003	Date Collected:	01.15.19 10.50	Sample Depth:	0.5 - 12 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	01.17.19 16.00	Basis:	Wet Weight
Seq Number:	3076200				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.18.19 02.27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.18.19 02.27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.18.19 02.27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.18.19 02.27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.18.19 02.27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.18.19 02.27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.18.19 02.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	01.18.19 02.27	
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.18.19 02.27	

Certificate of Analytical Results 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	01.17.19 12.05
Lab Sample Id:	611644-004	Date Collected:	01.15.19 10.55	Sample Depth:	0.5 - 10.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.17.19 16.00	Basis:	Wet Weight
Seq Number:	3076282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.9**	49.9	mg/kg	01.18.19 00.29		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	01.18.19 08.30	Basis:	Wet Weight
Seq Number:	3076301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.18.19 13.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.18.19 13.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	01.18.19 13.23	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.18.19 13.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	01.18.19 13.23	
o-Terphenyl	84-15-1	94	%	70-135	01.18.19 13.23	

Certificate of Analytical Results 611644

LT Environmental, Inc., Arvada, CO

Poker Lake Unit RR 19 Battery

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	01.17.19 12.05
Lab Sample Id:	611644-004	Date Collected:	01.15.19 10.55	Sample Depth:	0.5 - 10.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	01.17.19 16.00	Basis:	Wet Weight
Seq Number:	3076200				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.18.19 02.46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.18.19 02.46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.18.19 02.46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.18.19 02.46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.18.19 02.46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.18.19 02.46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.18.19 02.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	01.18.19 02.46	
4-Bromofluorobenzene	460-00-4	116	%	70-130	01.18.19 02.46	

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 611644

LT Environmental, Inc.

Poker Lake Unit RR 19 Battery

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3076282 Matrix: Solid Date Prep: 01.17.19
MB Sample Id: 7669955-1-BLK LCS Sample Id: 7669955-1-BKS LCSD Sample Id: 7669955-1-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	248	99	246	98	90-110	1	20	mg/kg	01.17.19 23:18	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3076282 Matrix: Soil Date Prep: 01.17.19
Parent Sample Id: 611567-003 MS Sample Id: 611567-003 S MSD Sample Id: 611567-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	30.4	249	272	97	267	95	90-110	2	20	mg/kg	01.18.19 01:06	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3076282 Matrix: Soil Date Prep: 01.17.19
Parent Sample Id: 611646-001 MS Sample Id: 611646-001 S MSD Sample Id: 611646-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	371	248	565	78	586	87	90-110	4	20	mg/kg	01.17.19 23:37	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3076301 Matrix: Solid Date Prep: 01.18.19
MB Sample Id: 7670031-1-BLK LCS Sample Id: 7670031-1-BKS LCSD Sample Id: 7670031-1-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)	<8.00	1000	810	81	812	81	70-135	0	20	mg/kg	01.18.19 11:03	
Diesel Range Organics (DRO)	<8.13	1000	889	89	897	90	70-135	1	20	mg/kg	01.18.19 11:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		125		124		70-135	%	01.18.19 11:03
o-Terphenyl	89		121		120		70-135	%	01.18.19 11:03

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 611644

LT Environmental, Inc.

Poker Lake Unit RR 19 Battery

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3076301 | Matrix: Soil | Date Prep: 01.18.19
Parent Sample Id: 611644-001 | MS Sample Id: 611644-001 S | MSD Sample Id: 611644-001 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)	<8.00	1000	939	94	844	84	70-135	11	20	mg/kg	01.18.19 12:03	
Diesel Range Organics (DRO)	13.1	1000	1020	101	936	92	70-135	9	20	mg/kg	01.18.19 12:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		118		70-135	%	01.18.19 12:03
o-Terphenyl	126		109		70-135	%	01.18.19 12:03

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3076200 | Matrix: Solid | Date Prep: 01.17.19
MB Sample Id: 7669975-1-BLK | LCS Sample Id: 7669975-1-BKS | LCSD Sample Id: 7669975-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000387	0.101	0.126	125	0.124	124	70-130	2	35	mg/kg	01.17.19 23:57	
Toluene	<0.000458	0.101	0.109	108	0.107	107	70-130	2	35	mg/kg	01.17.19 23:57	
Ethylbenzene	<0.000568	0.101	0.100	99	0.0978	98	70-130	2	35	mg/kg	01.17.19 23:57	
m,p-Xylenes	<0.00102	0.201	0.200	100	0.194	97	70-130	3	35	mg/kg	01.17.19 23:57	
o-Xylene	<0.000346	0.101	0.0994	98	0.0968	97	70-130	3	35	mg/kg	01.17.19 23:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		108		109		70-130	%	01.17.19 23:57
4-Bromofluorobenzene	94		108		109		70-130	%	01.17.19 23:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3076200 | Matrix: Soil | Date Prep: 01.17.19
Parent Sample Id: 611644-001 | MS Sample Id: 611644-001 S | MSD Sample Id: 611644-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.0962	96	0.102	102	70-130	6	35	mg/kg	01.18.19 00:35	
Toluene	<0.000457	0.100	0.0842	84	0.0899	90	70-130	7	35	mg/kg	01.18.19 00:35	
Ethylbenzene	<0.000566	0.100	0.0756	76	0.0816	82	70-130	8	35	mg/kg	01.18.19 00:35	
m,p-Xylenes	<0.00102	0.200	0.152	76	0.164	82	70-130	8	35	mg/kg	01.18.19 00:35	
o-Xylene	<0.000345	0.100	0.0756	76	0.0821	82	70-130	8	35	mg/kg	01.18.19 00:35	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		109		70-130	%	01.18.19 00:35
4-Bromofluorobenzene	110		109		70-130	%	01.18.19 00:35

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

Chain of Custody

Work Order No: 1e11644

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com Page 2 of 2

Project Manager:	Adrian Baker	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432.704.5178	Email:	abaker@ltenv.com; abyers@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit RR 19 Battery	Turn Around	
Project Number:		Routine ☐	
P.O. Number:	2RP-4706	Rush:SAME DAY	
Sampler's Name:	Anna Byers	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0-3 | 0.2	Thermometer ID:		
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.1	
Sample Custody Seals:	Yes (No) N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW01	S	1/15/2019	1040	0.5' - 10'	1	X	X	X
SW02	S	1/15/2019	1045	0.5' - 10'	1	X	X	X
SW03	S	1/15/2019	1050	0.5' - 12'	1	X	X	X
SW06	S	1/15/2019	1055	0.5' - 10.5'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			1/16/19 @ 1155	2		1/17/19 1205
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01/17/2019 12:05:00 PM

Work Order #: 611644

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
#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: 01/17/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 01/18/2019

Jessica Kramer

ATTACHMENT 3: PHOTOGRAPHIC LOG

Northwest facing view of the excavation.

Project: 012918103	XTO Energy, Inc. Poker Lake Unit CVX JV RR #003H/Poker Lake Unit Ross Ranch 19 Battery	LTE Advancing Opportunity
January 15, 2019	Photographic Log	

Southeast facing view of the excavation.

Project: 012918103	XTO Energy, Inc. Poker Lake Unit CVX JV RR #003H/Poker Lake Unit Ross Ranch 19 Battery	LTE Advancing Opportunity
January 15, 2019	Photographic Log	

View of the lined tank battery containment.

Project: 012918103	XTO Energy, Inc. Poker Lake Unit CVX JV RR #003H/Poker Lake Unit Ross Ranch 19 Battery	LTE Advancing Opportunity
January 15, 2019	Photographic Log	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 190454

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 190454
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	Site must meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment.	2/24/2023