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

January 3, 2018

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

RE: Closure Request
BEU Hackberry 34 Federal Battery #1
Remediation Permit Number 2RP-5026
Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following letter report detailing excavation and soil sampling activities at the BEU Hackberry 34 Federal Battery #1 (API 30-015-40288) (Site) in Unit A, Section 34, Township 19 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the excavating and soil sampling activities was to address impacts to soil after produced water and crude oil were released into the unlined earthen containment berm. The release occurred on the in the southwest portion of the well pad in the process equipment area.

On October 5, 2018, a sight glass broke on a separator casing a release of 14 barrels (bbls) of crude oil and 26 bbls of produced water. Vacuum trucks were dispatched and recovered approximately 12 bbls of crude oil and 23 bbls of produced water. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 on October 19, 2018, and was assigned Remediation Permit (RP) Number 2RP-5026 (Attachment 1). A second release occurred at the Site on October 5, 2018 and was assigned 2RP-4399. Due to the releases overlapping, soil sampling and excavation activities to address both releases were conducted at the same time. Some of the soil samples presented herein were additionally used to document response and remediation activities for 2RP-5026. Sample nomenclature may not be sequential due to the Site having two release events. The response to 2RP-4399 is reported under a separate cover.

BACKGROUND

The source of the releases is at latitude 32.621783 degrees (°) and longitude -103.851599°. The release occurred after August 14, 2018; therefore, LTE applied Table 1: The Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be 153 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is C 00722 POD 3, located approximately 1.4 miles west

southwest of the Site. Ground surface elevation at the well location is 3,459 feet, which is 13 feet lower in elevation than the Site. The water well has a depth to groundwater of 140 feet and a total depth of 220 feet bgs. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash located approximately 5,443 feet south southeast 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 remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 1,000 mg/kg gasoline range organics (GRO) and diesel range organics (DRO); 2,500 mg/kg total petroleum hydrocarbons (TPH); and 20,000 mg/kg chloride.

SOIL SAMPLING

On October 16, 2018, an LTE scientist collected six initial soil samples (SS01 and SS06 through SS10) to assess the lateral extent of impacted soil in the release area (Figure 2). Initial soil sample locations were selected based on information provided on the initial Form C-141 and field observations. To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, the soil samples were collected at approximately 0.5 feet bgs. The soil samples were screened for volatile aromatic hydrocarbons (VOCs) using a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp and Hach® chloride QuanTab® test strips. The soil samples were placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis, and immediately placed on ice. The samples were shipped to Xenco Laboratories (Xenco) in Midland, Texas, at 4 degrees Celsius (°C) under strict chain-of-custody procedures for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) by EPA Method 8015 Modified, and chloride by EPA Method 300.0.

Laboratory analytical results for the preliminary soil samples SS06 through SS10 were compliant with the NMOCD site-specific remediation action levels for benzene, BTEX, GRO/DRO, TPH, and chloride. Laboratory analytical results for soil sample SS01 indicated concentrations of benzene, BTEX, GRO/DRO, and TPH exceeded the NMOCD remediation action levels. The laboratory analytical results are depicted on Figure 2, summarized in Table 1, and the full laboratory analytical reports are included in Attachment 2.

DELINEATION ACTIVITIES

On December 14, 2018, LTE personnel returned to the Site to further investigate delineation of vertical and horizontal impacts to soil. A total of 7 boreholes were advanced using a hand auger (BH01 through BH05, BH09, and BH11). One pothole (PH04) was advanced via hydrovacuum (Hydrovac). As with previous sampling, LTE screened soil samples from the boreholes and pothole using a PID and Hach® chloride QuanTab® test strips. Two samples were collected from each

borehole and submitted for laboratory analysis: one from the soil interval exhibiting the highest field screening value for VOCs and one from the bottom of each borehole and pothole. If field screening results were negative for VOCs, soil samples were collected from the top and bottom of the borehole and pothole. The deepest sample was collected from BH09 at 3.5' bgs. Samples were handled and analyzed as previously described.

Laboratory analytical results indicated delineation soil samples were compliant with the NMOCD benzene, BTEX, GRO/DRO, TPH, and chloride remediation action levels. The laboratory analytical results are depicted on Figure 3, summarized in Table 1, and the full laboratory analytical reports are included in Attachment 2.

EXCAVATION ACTIVITIES

On December 19, 2018, LTE personnel returned to the Site to oversee excavation of impacted soil in the vicinity of initial soil sample SS01. Due to the high density of equipment and pipelines, excavation was conducted using a Hydrovac. The L-shaped excavation measured approximately 400 square feet and was completed to depths ranging from 2 feet to 4 feet bgs, with the southwestern portion of the excavation being the deepest (Figure 4). Approximately 30 cubic yards of impacted soil were removed from the excavation. The impacted soil removed from the excavation was transported and properly disposed of at the R360 Landfill located in Hobbs, New Mexico.

Following removal of impacted soil, LTE collected 5-point composite soil samples from the floor and sidewalls of the excavation. Composite soil samples FS01 and FS02 were collected from the floor of the excavation from depths of 2.5 feet and 4 feet bgs respectively. Composite soil samples SW01 and SW02 were collected 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 thorough mixing. Samples were handled and analyzed by Xenco as previously described. Laboratory analytical results indicated final confirmation excavation soil samples were compliant with the NMOCD benzene, BTEX, GRO/DRO, TPH, and chloride remediation action levels. Results are presented in Table 1 and Figure 4 and laboratory reports are included in Attachment 2.

CONCLUSIONS

Laboratory analytical results from delineation samples and final excavation soil samples indicate that benzene, BTEX, GRO/DRO, TPH, and chloride concentrations are compliant with NMOCD site-specific remediation action levels. XTO requests no further action for release 2RP-5026. An updated NMOCD Form C-141 is included in Attachment 1. Site photographs are located in Attachment 3.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Adrian Baker
Project Geologist

Ashley L. Ager, M.S., P.G.
Senior Geologist

cc: Kyle Littrell, XTO
Shelly Tucker, Bureau of Land Management
Robert Hamlet, NMOCD

Attachments:

Figure 1	Site Location Map
Figure 2	Initial Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Initial/Final NMOCD Form C-141 (2RP-5026)
Attachment 2	Laboratory Analytical Reports
Attachment 3	Photographic Log

LEGEND

IMAGE COURTESY OF ESRI/USGS

SITE LOCATION

0 2,000 4,000

Feet

N

NEW MEXICO

NOTE: REMEDIATION PERMIT NUMBERS 2RP-5026

FIGURE 1
SITE LOCATION MAP
BEU HACKBERRY 34 FEDERAL BATTERY #1
UNIT A SEC 34 T19S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918169_HACKBERRY 34 BATTERY\012918169_FIG01_SL_2018_4399_NA.mxd

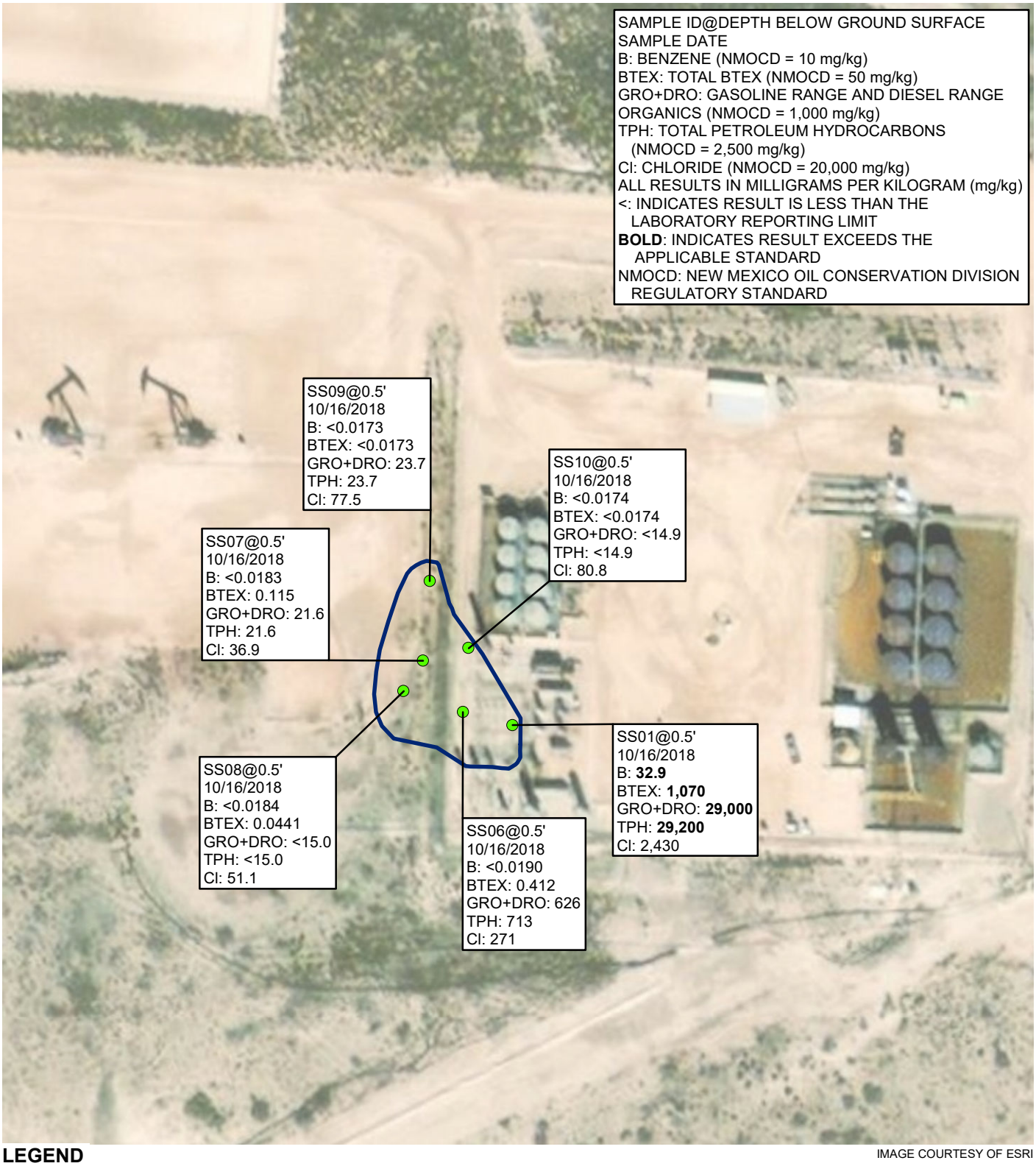

IMAGE COURTESY OF ESRI

LEGEND

- INITIAL SOIL SAMPLE
- 2RP-5026 RELEASE EXTENT

0 100 200
Feet

N

FIGURE 2
INITIAL SOIL SAMPLE LOCATIONS
BEU HACKBERRY 34 FEDERAL BATTERY #1
UNIT A SEC 34 T19S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

NOTE: REMEDIATION PERMIT NUMBER 2RP-5026

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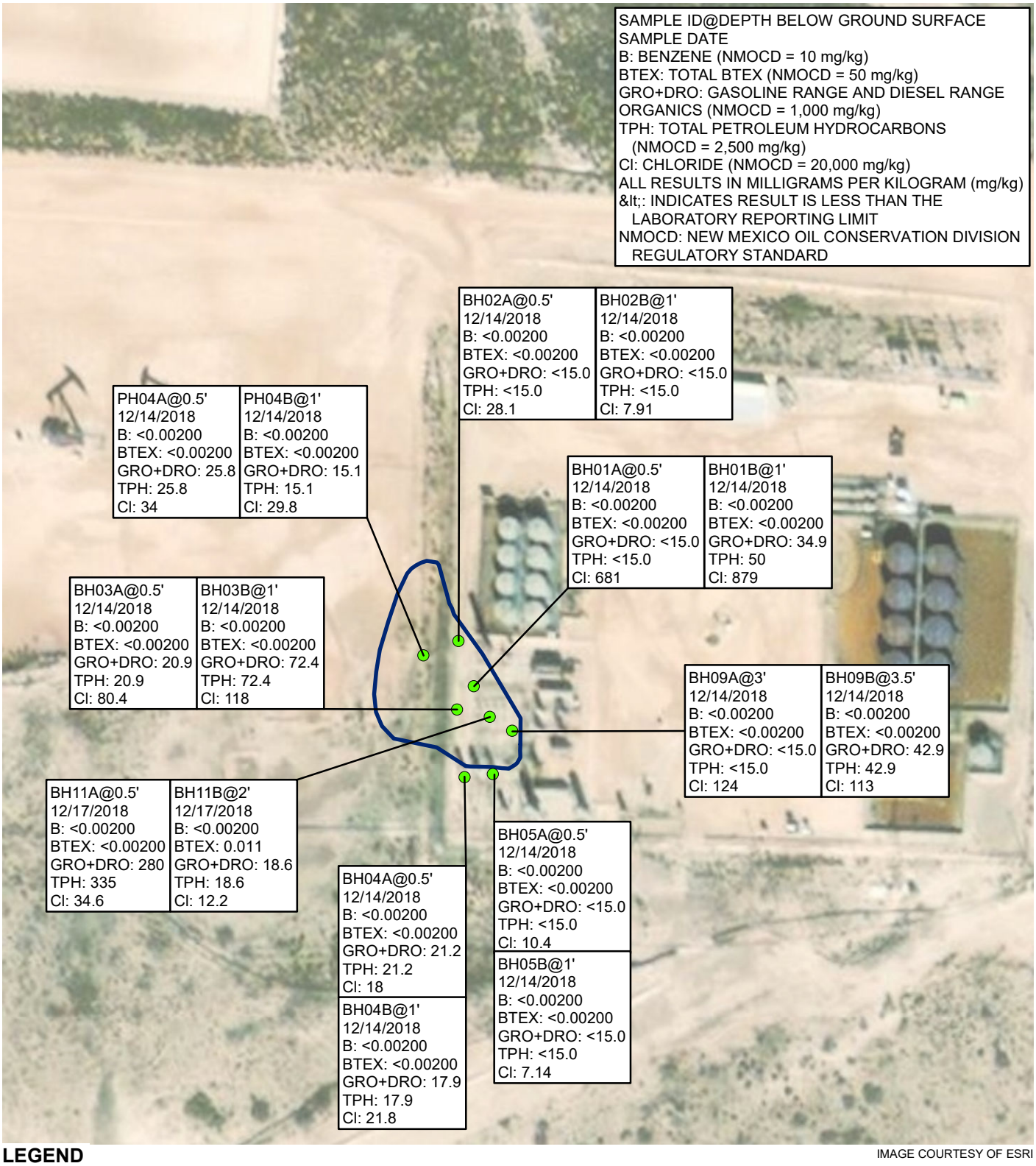


LEGEND

DELINEATION SOIL SAMPLE

2RP-5026 RELEASE EXTENT

IMAGE COURTESY OF ESRI

0 100 200

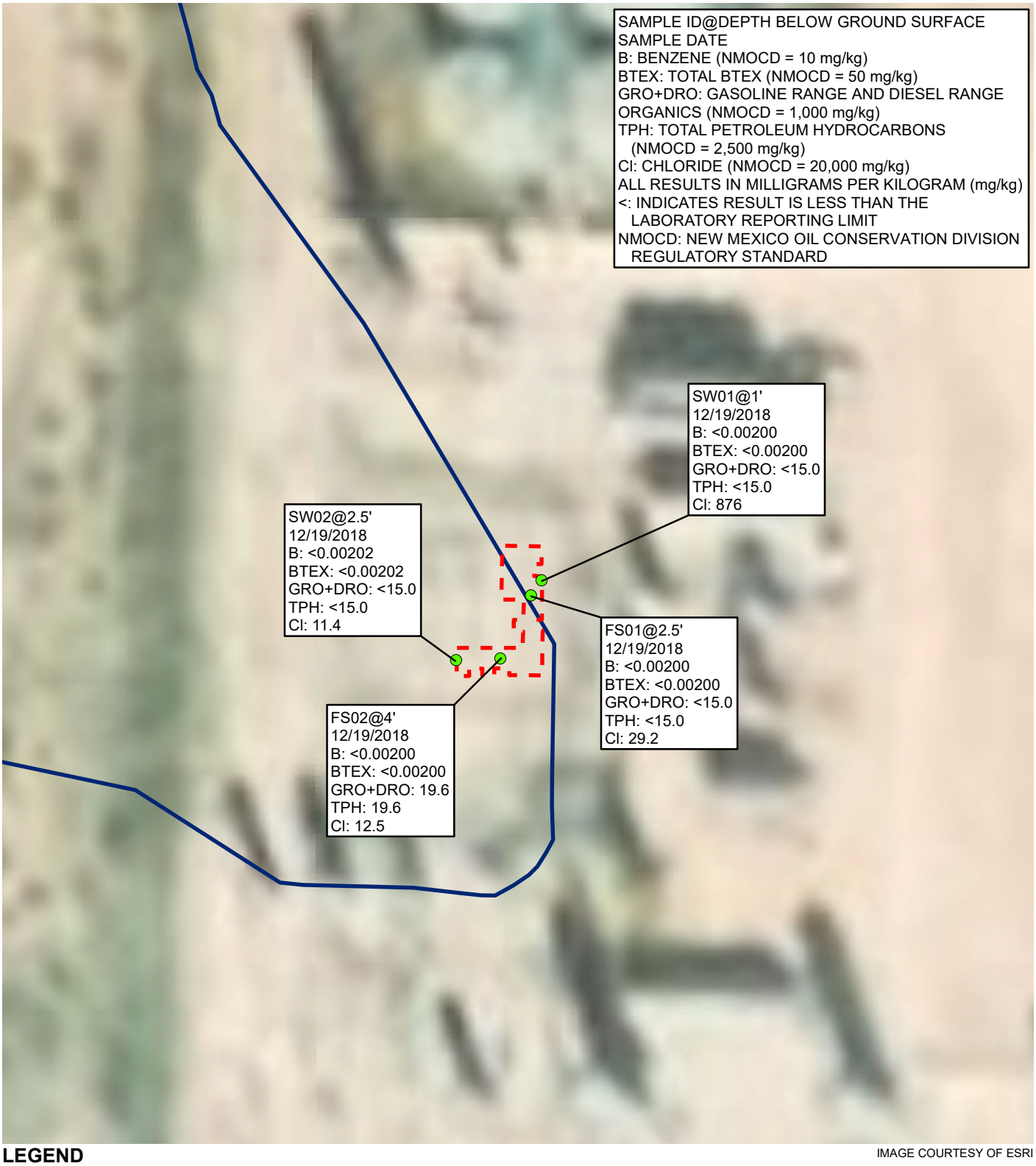
Feet

N

NOTE: REMEDIATION PERMIT NUMBER 2RP-5026

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
BEU HACKBERRY 34 FEDERAL BATTERY #1
UNIT A SEC 34 T19S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918169_HACKBERRY 34 BATTERY\012918169_FIG03_SITE_2018_5026_190102.mxd



LEGEND

IMAGE COURTESY OF ESRI

- FINAL CONFIRMATION SOIL SAMPLE
- EXCAVATION EXTENT
- 2RP-5026 RELEASE EXTENT

0 20 40

Feet

N

NOTE: REMEDIATION PERMIT NUMBER 2RP-5026

FIGURE 4
EXCAVATION SOIL SAMPLE LOCATIONS
BEU HACKBERRY 34 FEDERAL BATTERY #1
UNIT A SEC 34 T19S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918169_HACKBERRY 34 BATTERY\012918169_FIG04_EXC_SOIL_2018_5026_190102.mxd

TABLE 1
SOIL ANALYTICAL RESULTS

BEU HACKBERRY 34 FEDERAL BATTERY #1
REMEDIATION PERMIT NUMBER 2RP-5026
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)
SS01	0.5	10/16/2018	**32.9**	350	248	439	**1,070**	8,660	20,300	197	**29,000**	**29,200**	2,430
SS06	0.5	10/16/2018	<0.0190	0.0304	0.120	0.262	0.412	<15.0	626	86.9	626	713	271
SS07	0.5	10/16/2018	<0.0183	<0.0183	<0.0183	0.115	0.115	<15.0	21.6	<15.0	21.6	21.6	36.9
SS08	0.5	10/16/2018	<0.0184	<0.0184	0.0441	<0.0184	0.0441	<15.0	<15.0	<15.0	<15.0	<15.0	51.1
SS09	0.5	10/16/2018	<0.0173	<0.0173	<0.0173	<0.0173	<0.0173	<15.0	23.7	<15.0	23.7	23.7	77.5
SS10	0.5	10/16/2018	<0.0174	<0.0174	<0.0174	<0.0174	<0.0174	<14.9	<14.9	<14.9	<14.9	<14.9	80.8
BH01A	0.5	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	681
BH01B	1	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	34.9	15.1	34.9	50.0	879
BH02A	0.5	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	28.1
BH02B	1	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	7.91
BH03A	0.5	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	20.9	<14.9	20.9	20.9	80.4
BH03B	1	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	72.4	<14.9	72.4	72.4	118
BH04A	0.5	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	21.2	<15.0	21.2	21.2	18.0
BH04B	1	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	17.9	<15.0	17.9	17.9	21.8
BH05A	0.5	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	10.4
BH05B	1	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	7.14
BH09A	3	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	124
BH09B	3.5	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	42.9	<15.0	42.9	42.9	113
PH04A	0.5	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	25.8	<14.9	25.8	25.8	34.0
PH04B	1	12/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	15.1	<15.0	15.1	15.1	29.8
BH11A	0.5	12/17/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	280	55.3	280	335	34.6
BH11B	2	12/17/2018	<0.00200	0.00738	0.00361	<0.00200	0.0110	<15.0	18.6	<15.0	18.6	18.6	12.2
FS01	2.5	12/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	29.2
FS02	4	12/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	19.6	<15.0	19.6	19.6	12.5
SW01	1	12/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	876
SW02	2.5	12/19/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	11.4
NMOCD Remediation Action Levels			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

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	NMAP1829837341
District RP	2RP-5026
Facility ID	N/A
Application ID	pMAP1829836843

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # *(assigned by OCD)* NMAP1829837341
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.621783 Longitude -103.851599
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Hackberry 34 Battery	Site Type Tank Battery
Date Release 10/5/2018	API# 30-015-40288

Unit Letter	Section	Township	Range	County
A	34	19S	31E	Eddy

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

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) 14	Volume Recovered (bbls) 12
☒ Produced Water	Volume Released (bbls) 26	Volume Recovered (bbls) 23
	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
Sight glass broke on separator, causing release of fluid. Vacuum trucks dispatched, recovered 35bbl total fluid with approximately 5 bbl left in the soil.

State of New Mexico
Oil Conservation Division

Incident ID	NMAP1829837341
District RP	2RP-5026
Facility ID	N/A
Application ID	pMAP1829836843

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? An unauthorized release of a volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification was provided by Amy Ruth to Maria Pruett/Mike Bratcher/Jim Griswold (NMOCD) and Shelly Tucker/Jim Amos (BLM) on 10/5/2018 by email.	

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: 10-19-18

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

OCD Only

Received by: Date: 10/25/18

State of New Mexico
Oil Conservation Division

Incident ID	NMAP1829837341
District RP	2RP-5026
Facility ID	N/A
Application ID	pMAP1829836843

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	
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: 10-19-18

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

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ 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: Bryan Foust Title: SH&E Coordinator

Signature: Date: 1/3/2019

email: Bryan_Foust@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: Date:

Printed Name: Title:

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS

Analytical Report 602719

for

LT Environmental, Inc.

Project Manager: Adrian Baker

BEU Hackberry 34 Battery

23-OCT-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)

23-OCT-18

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

Reference: XENCO Report No(s): **602719**
BEU Hackberry 34 Battery
Project Address: Eddy County

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) 602719. 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. 602719 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Sample Cross Reference 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS06	S	10-16-18 11:08	6 In	602719-001
SS07	S	10-16-18 11:25	6 In	602719-002
SS08	S	10-16-18 11:28	6 In	602719-003
SS09	S	10-16-18 11:35	6 In	602719-004
SS10	S	10-16-18 11:55	6 In	602719-005

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3067038 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3067041 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 602719

LT Environmental, Inc., Arvada, CO

Project Name: BEU Hackberry 34 Battery

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

Date Received in Lab: Thu Oct-18-18 10:40 am
Report Date: 23-OCT-18
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	602719-001		602719-002		602719-003		602719-004		602719-005	
	Field Id:	SS06		SS07		SS08		SS09		SS10	
	Depth:	6- In		6- In		6- In		6- In		6- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-16-18 11:08		Oct-16-18 11:25		Oct-16-18 11:28		Oct-16-18 11:35		Oct-16-18 11:55	
BTEX by EPA 8021B SUB: T104704219-18-18	***Extracted:***	Oct-19-18 12:30		Oct-19-18 12:30		Oct-19-18 12:30		Oct-19-18 12:30		Oct-19-18 12:30	
	Analyzed:	Oct-21-18 04:18		Oct-21-18 04:42		Oct-21-18 05:06		Oct-21-18 09:53		Oct-21-18 10:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.0190	0.0190	<0.0183	0.0183	<0.0184	0.0184	<0.0173	0.0173	<0.0174	0.0174
Toluene		0.0304	0.0190	<0.0183	0.0183	<0.0184	0.0184	<0.0173	0.0173	<0.0174	0.0174
Ethylbenzene		0.120	0.0190	<0.0183	0.0183	0.0441	0.0184	<0.0173	0.0173	<0.0174	0.0174
m,p-Xylenes		0.146	0.0380	0.115	0.0366	<0.0368	0.0368	<0.0345	0.0345	<0.0347	0.0347
o-Xylene		0.116	0.0190	<0.0183	0.0183	<0.0184	0.0184	<0.0173	0.0173	<0.0174	0.0174
Total Xylenes		0.262	0.0190	0.115	0.0183	<0.0184	0.0184	<0.0173	0.0173	<0.0174	0.0174
Total BTEX		0.412	0.0190	0.115	0.0183	0.0441	0.0184	<0.0173	0.0173	<0.0174	0.0174
Inorganic Anions by EPA 300 SUB: T104704219-18-18	***Extracted:***	Oct-19-18 11:00		Oct-19-18 11:00		Oct-19-18 11:00		Oct-19-18 11:00		Oct-19-18 11:00	
	Analyzed:	Oct-19-18 20:14		Oct-19-18 20:26		Oct-19-18 21:04		Oct-19-18 21:16		Oct-19-18 21:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		271	125	36.9	25.0	51.1	25.0	77.5	25.0	80.8	25.0
TPH by SW8015 Mod	***Extracted:***	Oct-19-18 17:00		Oct-19-18 17:00		Oct-19-18 17:00		Oct-19-18 17:00		Oct-19-18 17:00	
	Analyzed:	Oct-20-18 14:20		Oct-22-18 08:00		Oct-20-18 14:57		Oct-20-18 15:16		Oct-20-18 15:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		626	15.0	21.6	15.0	<15.0	15.0	23.7	15.0	<14.9	14.9
Motor Oil Range Hydrocarbons (MRO)		86.9	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total TPH		713	15.0	21.6	15.0	<15.0	15.0	23.7	15.0	<14.9	14.9

Jessica Kramer
Project Assistant

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-001	Date Collected:	10.16.18 11.08	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	10.19.18 11.00	Basis:	Wet Weight
Seq Number:	3067028			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**271**	125	mg/kg	10.19.18 20.14		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	10.19.18 17.00	Basis:	Wet Weight
Seq Number:	3067097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.20.18 14.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	**626**	15.0	mg/kg	10.20.18 14.20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**86.9**	15.0	mg/kg	10.20.18 14.20		1
Total TPH	PHC635	**713**	15.0	mg/kg	10.20.18 14.20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.20.18 14.20	
o-Terphenyl	84-15-1	116	%	70-135	10.20.18 14.20	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-001	Date Collected:	10.16.18 11.08	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.19.18 12.30	Basis:	Wet Weight
Seq Number:	3067038			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0190	0.0190	mg/kg	10.21.18 04.18	U	1
Toluene	108-88-3	**0.0304**	0.0190	mg/kg	10.21.18 04.18		1
Ethylbenzene	100-41-4	**0.120**	0.0190	mg/kg	10.21.18 04.18		1
m,p-Xylenes	179601-23-1	**0.146**	0.0380	mg/kg	10.21.18 04.18		1
o-Xylene	95-47-6	**0.116**	0.0190	mg/kg	10.21.18 04.18		1
Total Xylenes	1330-20-7	**0.262**	0.0190	mg/kg	10.21.18 04.18		1
Total BTEX		**0.412**	0.0190	mg/kg	10.21.18 04.18		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	68-120	10.21.18 04.18	
a,a,a-Trifluorotoluene	98-08-8	92	%	71-121	10.21.18 04.18	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-002	Date Collected:	10.16.18 11.25	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	10.19.18 11.00	Basis:	Wet Weight
Seq Number:	3067028			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**36.9**	25.0	mg/kg	10.19.18 20.26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	10.19.18 17.00	Basis:	Wet Weight
Seq Number:	3067097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.22.18 08.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**21.6**	15.0	mg/kg	10.22.18 08.00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	10.22.18 08.00	U	1
Total TPH	PHC635	**21.6**	15.0	mg/kg	10.22.18 08.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.22.18 08.00	
o-Terphenyl	84-15-1	103	%	70-135	10.22.18 08.00	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-002	Date Collected:	10.16.18 11.25	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.19.18 12.30	Basis:	Wet Weight
Seq Number:	3067038			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0183	0.0183	mg/kg	10.21.18 04.42	U	1
Toluene	108-88-3	<0.0183	0.0183	mg/kg	10.21.18 04.42	U	1
Ethylbenzene	100-41-4	<0.0183	0.0183	mg/kg	10.21.18 04.42	U	1
m,p-Xylenes	179601-23-1	**0.115**	0.0366	mg/kg	10.21.18 04.42		1
o-Xylene	95-47-6	<0.0183	0.0183	mg/kg	10.21.18 04.42	U	1
Total Xylenes	1330-20-7	**0.115**	0.0183	mg/kg	10.21.18 04.42		1
Total BTEX		**0.115**	0.0183	mg/kg	10.21.18 04.42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	68-120	10.21.18 04.42	
a,a,a-Trifluorotoluene	98-08-8	106	%	71-121	10.21.18 04.42	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS08**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-003	Date Collected:	10.16.18 11.28	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	10.19.18 11.00	Basis:	Wet Weight
Seq Number:	3067028			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.1**	25.0	mg/kg	10.19.18 21.04		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	10.19.18 17.00	Basis:	Wet Weight
Seq Number:	3067097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.20.18 14.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.20.18 14.57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	10.20.18 14.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.20.18 14.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	10.20.18 14.57	
o-Terphenyl	84-15-1	97	%	70-135	10.20.18 14.57	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS08**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-003	Date Collected:	10.16.18 11.28	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.19.18 12.30	Basis:	Wet Weight
Seq Number:	3067038			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0184	0.0184	mg/kg	10.21.18 05.06	U	1
Toluene	108-88-3	<0.0184	0.0184	mg/kg	10.21.18 05.06	U	1
Ethylbenzene	100-41-4	**0.0441**	0.0184	mg/kg	10.21.18 05.06		1
m,p-Xylenes	179601-23-1	<0.0368	0.0368	mg/kg	10.21.18 05.06	U	1
o-Xylene	95-47-6	<0.0184	0.0184	mg/kg	10.21.18 05.06	U	1
Total Xylenes	1330-20-7	<0.0184	0.0184	mg/kg	10.21.18 05.06	U	1
Total BTEX		**0.0441**	0.0184	mg/kg	10.21.18 05.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	68-120	10.21.18 05.06	
a,a,a-Trifluorotoluene	98-08-8	114	%	71-121	10.21.18 05.06	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS09**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-004	Date Collected:	10.16.18 11.35	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	10.19.18 11.00	Basis:	Wet Weight
Seq Number:	3067028			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**77.5**	25.0	mg/kg	10.19.18 21.16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	10.19.18 17.00	Basis:	Wet Weight
Seq Number:	3067097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.20.18 15.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**23.7**	15.0	mg/kg	10.20.18 15.16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	10.20.18 15.16	U	1
Total TPH	PHC635	**23.7**	15.0	mg/kg	10.20.18 15.16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.20.18 15.16	
o-Terphenyl	84-15-1	102	%	70-135	10.20.18 15.16	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS09**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-004	Date Collected:	10.16.18 11.35	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.19.18 12.30	Basis:	Wet Weight
Seq Number:	3067041			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0173	0.0173	mg/kg	10.21.18 09.53	U	1
Toluene	108-88-3	<0.0173	0.0173	mg/kg	10.21.18 09.53	U	1
Ethylbenzene	100-41-4	<0.0173	0.0173	mg/kg	10.21.18 09.53	U	1
m,p-Xylenes	179601-23-1	<0.0345	0.0345	mg/kg	10.21.18 09.53	U	1
o-Xylene	95-47-6	<0.0173	0.0173	mg/kg	10.21.18 09.53	U	1
Total Xylenes	1330-20-7	<0.0173	0.0173	mg/kg	10.21.18 09.53	U	1
Total BTEX		<0.0173	0.0173	mg/kg	10.21.18 09.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	68-120	10.21.18 09.53	
a,a,a-Trifluorotoluene	98-08-8	94	%	71-121	10.21.18 09.53	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS10**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-005	Date Collected:	10.16.18 11.55	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	RNL			% Moisture:	
Analyst:	RNL	Date Prep:	10.19.18 11.00	Basis:	Wet Weight
Seq Number:	3067028			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**80.8**	25.0	mg/kg	10.19.18 21.29		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	10.19.18 17.00	Basis:	Wet Weight
Seq Number:	3067097				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	10.20.18 15.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	10.20.18 15.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	10.20.18 15.34	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	10.20.18 15.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.20.18 15.34	
o-Terphenyl	84-15-1	100	%	70-135	10.20.18 15.34	

Certificate of Analytical Results 602719

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SS10**	Matrix:	Soil	Date Received:	10.18.18 10.40
Lab Sample Id:	602719-005	Date Collected:	10.16.18 11.55	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MIT			% Moisture:	
Analyst:	MIT	Date Prep:	10.19.18 12.30	Basis:	Wet Weight
Seq Number:	3067041			SUB:	T104704219-18-18

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0174	0.0174	mg/kg	10.21.18 10.17	U	1
Toluene	108-88-3	<0.0174	0.0174	mg/kg	10.21.18 10.17	U	1
Ethylbenzene	100-41-4	<0.0174	0.0174	mg/kg	10.21.18 10.17	U	1
m,p-Xylenes	179601-23-1	<0.0347	0.0347	mg/kg	10.21.18 10.17	U	1
o-Xylene	95-47-6	<0.0174	0.0174	mg/kg	10.21.18 10.17	U	1
Total Xylenes	1330-20-7	<0.0174	0.0174	mg/kg	10.21.18 10.17	U	1
Total BTEX		<0.0174	0.0174	mg/kg	10.21.18 10.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	86	%	68-120	10.21.18 10.17	
a,a,a-Trifluorotoluene	98-08-8	89	%	71-121	10.21.18 10.17	

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 602719

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3067028 Matrix: Solid Date Prep: 10.19.18
MB Sample Id: 7664554-1-BLK LCS Sample Id: 7664554-1-BKS LCSD Sample Id: 7664554-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.26	250	246	98	239	96	90-110	3	20	mg/kg	10.19.18 16:43	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3067028 Matrix: Soil Date Prep: 10.19.18
Parent Sample Id: 602716-012 MS Sample Id: 602716-012 S MSD Sample Id: 602716-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	383	250	628	98	648	106	80-120	3	20	mg/kg	10.19.18 17:33	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3067028 Matrix: Soil Date Prep: 10.19.18
Parent Sample Id: 602719-002 MS Sample Id: 602719-002 S MSD Sample Id: 602719-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	36.9	250	277	96	275	95	80-120	1	20	mg/kg	10.19.18 20:39	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3067097 Matrix: Solid Date Prep: 10.19.18
MB Sample Id: 7664525-1-BLK LCS Sample Id: 7664525-1-BKS LCSD Sample Id: 7664525-1-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	852	85	882	88	70-135	3	20	mg/kg	10.20.18 12:47	
Diesel Range Organics (DRO)	<8.13	1000	980	98	1020	102	70-135	4	20	mg/kg	10.20.18 12:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		124		126		70-135	%	10.20.18 12:47
o-Terphenyl	97		122		124		70-135	%	10.20.18 12:47

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 602719

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3067038 Matrix: Solid Date Prep: 10.19.18
MB Sample Id: 7664511-1-BLK LCS Sample Id: 7664511-1-BKS LCSD Sample Id: 7664511-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0200	2.00	1.87	94	1.81	91	55-120	3	20	mg/kg	10.20.18 17:50	
Toluene	<0.0200	2.00	1.83	92	1.77	89	77-120	3	20	mg/kg	10.20.18 17:50	
Ethylbenzene	<0.0200	2.00	2.00	100	1.86	93	77-120	7	20	mg/kg	10.20.18 17:50	
m,p-Xylenes	<0.0400	4.00	3.95	99	3.67	92	78-120	7	20	mg/kg	10.20.18 17:50	
o-Xylene	<0.0200	2.00	1.94	97	1.84	92	78-120	5	20	mg/kg	10.20.18 17:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	107		86		92		68-120	%	10.20.18 17:50
a,a,a-Trifluorotoluene	104		81		94		71-121	%	10.20.18 17:50

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3067041 Matrix: Solid Date Prep: 10.19.18
MB Sample Id: 7664512-1-BLK LCS Sample Id: 7664512-1-BKS LCSD Sample Id: 7664512-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0200	2.00	1.80	90	1.82	91	55-120	1	20	mg/kg	10.21.18 06:41	
Toluene	<0.0200	2.00	1.76	88	1.78	89	77-120	1	20	mg/kg	10.21.18 06:41	
Ethylbenzene	<0.0200	2.00	1.83	92	1.85	93	77-120	1	20	mg/kg	10.21.18 06:41	
m,p-Xylenes	<0.0400	4.00	3.66	92	3.70	93	78-120	1	20	mg/kg	10.21.18 06:41	
o-Xylene	<0.0200	2.00	1.85	93	1.87	94	78-120	1	20	mg/kg	10.21.18 06:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	76		86		84		68-120	%	10.21.18 06:41
a,a,a-Trifluorotoluene	75		89		85		71-121	%	10.21.18 06:41

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3067038 Matrix: Soil Date Prep: 10.19.18
Parent Sample Id: 602716-001 MS Sample Id: 602716-001 S MSD Sample Id: 602716-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0197	1.97	1.69	86	1.66	85	54-120	2	25	mg/kg	10.20.18 19:50	
Toluene	<0.0197	1.97	1.70	86	1.68	86	57-120	1	25	mg/kg	10.20.18 19:50	
Ethylbenzene	<0.0197	1.97	1.80	91	1.87	95	58-131	4	25	mg/kg	10.20.18 19:50	
m,p-Xylenes	<0.0394	3.94	3.58	91	3.77	96	62-124	5	25	mg/kg	10.20.18 19:50	
o-Xylene	<0.0197	1.97	1.77	90	1.85	94	62-124	4	25	mg/kg	10.20.18 19:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	86		98		68-120	%	10.20.18 19:50
a,a,a-Trifluorotoluene	90		93		71-121	%	10.20.18 19:50

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 602719

LT Environmental, Inc.

BEU Hackberry 34 Battery

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

Seq Number: 3067041 Matrix: Soil Date Prep: 10.19.18

Parent Sample Id: 602722-009 MS Sample Id: 602722-009 S MSD Sample Id: 602722-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0191	1.91	1.64	86	1.48	83	54-120	10	25	mg/kg	10.21.18 08:41	
Toluene	<0.0191	1.91	1.75	92	1.50	84	57-120	15	25	mg/kg	10.21.18 08:41	
Ethylbenzene	<0.0191	1.91	1.92	101	1.58	89	58-131	19	25	mg/kg	10.21.18 08:41	
m,p-Xylenes	<0.0382	3.82	3.83	100	3.16	89	62-124	19	25	mg/kg	10.21.18 08:41	
o-Xylene	<0.0191	1.91	1.86	97	1.57	88	62-124	17	25	mg/kg	10.21.18 08:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	113		89		68-120	%	10.21.18 08:41
a,a,a-Trifluorotoluene	109		91		71-121	%	10.21.18 08:41

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

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

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

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

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

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

Xenco Quote #: | Xenco Job #: 602719

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office
Company Address: 3300 N "A" St. Building 1 Unit 103 Midland, TX 79705
Email: abaker@ltenv.com Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Anna Byers

Project Information

Project Name/Number: BEU Hackberry 34 Battery
Project Location: Eddy County
Invoice To: XTO: Kyle Littrell
PO Number:

Analytical Information

Matrix Codes

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

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preservative bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH by SW8015 Mod	BTEX by EPA 8021B	Chloride by EPA 300	Field Comments
1	SS06	6"	10/16	1108	S	1								X	X	X	X	
2	SS07	6"	10/16	1125	S	1								X	X	X	X	
3	SS08	6"	10/16	1128	S	1								X	X	X	X	
4	SS09	6"	10/16	1135	S	1								X	X	X	X	
5	SS10	6"	10/16	1155	S	1								X	X	X	X	
6																		
7																		
8																		
9																		
10																		

Anna Byers 10/17/18

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 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

- [ ] 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 # 773503924428

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	Anna Byers	10/17/18 11:46	Timothy P. Ellis			
2					10/17/18 1530	Anna Byers 10/18/18
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
4						0040
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr. Factor
						3.2 +0.0

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

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.

Inter-Office Shipment

IOS Number **115727**

Date/Time: 10/18/18 11:37
Lab# From: **Midland**
Lab# To: **Lubbock**

Created by: Brianna Teel
Delivery Priority:
Air Bill No.: 773515268264

Please send report to: Jessica Kramer
Address: 1211 W. Florida Ave, Midland TX 79701
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
602719-001	S	SS06	10/16/18 11:08	E300	Inorganic Anions by EPA 300	10/24/18	11/13/18	JKR	CL	
602719-001	S	SS06	10/16/18 11:08	SW8021B	BTEX by EPA 8021B	10/24/18	10/30/18	JKR	BR4FBZ BZ BZME EBZ X	
602719-002	S	SS07	10/16/18 11:25	E300	Inorganic Anions by EPA 300	10/24/18	11/13/18	JKR	CL	
602719-002	S	SS07	10/16/18 11:25	SW8021B	BTEX by EPA 8021B	10/24/18	10/30/18	JKR	BR4FBZ BZ BZME EBZ X	
602719-003	S	SS08	10/16/18 11:28	E300	Inorganic Anions by EPA 300	10/24/18	11/13/18	JKR	CL	
602719-003	S	SS08	10/16/18 11:28	SW8021B	BTEX by EPA 8021B	10/24/18	10/30/18	JKR	BR4FBZ BZ BZME EBZ X	
602719-004	S	SS09	10/16/18 11:35	SW8021B	BTEX by EPA 8021B	10/24/18	10/30/18	JKR	BR4FBZ BZ BZME EBZ X	
602719-004	S	SS09	10/16/18 11:35	E300	Inorganic Anions by EPA 300	10/24/18	11/13/18	JKR	CL	
602719-005	S	SS10	10/16/18 11:55	SW8021B	BTEX by EPA 8021B	10/24/18	10/30/18	JKR	BR4FBZ BZ BZME EBZ X	
602719-005	S	SS10	10/16/18 11:55	E300	Inorganic Anions by EPA 300	10/24/18	11/13/18	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By: Brianna Teel
Brianna Teel

Date Relinquished: 10/18/2018

Received By: Brenda Ward
Brenda Ward

Date Received: 10/19/2018 10:44

Cooler Temperature: 2.9

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Lubbock

IOS #: 115727

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : IR-3

Sent By: Brianna Teel **Date Sent:** 10/18/2018 11:37 AM

Received By: Brenda Ward **Date Received:** 10/19/2018 10:44 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.9	
#2 *Shipping container in good condition?	**Yes**	0
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**No**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Brenda Ward Date: 10/19/2018

Brenda Ward

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/18/2018 10:40:00 AM

Work Order #: 602719

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

Temperature Measuring device used : R8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3.2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	Lubbock-BTEX/Chlorides
#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: 10/18/2018
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 10/18/2018
Jessica Kramer

Analytical Report 608832

for

LT Environmental, Inc.

Project Manager: Adrian Baker

BEU Hackberry 34 Battery

20-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)

20-DEC-18

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

Reference: XENCO Report No(s): **608832**
BEU Hackberry 34 Battery
Project Address: Eddy County

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) 608832. 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. 608832 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Sample Cross Reference 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01A	S	12-12-18 10:45	.5 ft	608832-001
PH01B	S	12-13-18 10:46	1 ft	608832-002
PH02A	S	12-13-18 10:15	.5 ft	608832-003
PH02B	S	12-13-18 10:20	1 ft	608832-004
PH03A	S	12-13-18 12:15	1 ft	608832-005
PH03B	S	12-13-18 12:20	2 ft	608832-006

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3073325 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3073331 BTEX by EPA 8021B
Lab Sample ID 608832-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene recovered below QC limits in the Matrix Spike. Benzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 608832-003, -004, -005, -006.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 608832

LT Environmental, Inc., Arvada, CO

Project Name: BEU Hackberry 34 Battery

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

Date Received in Lab: Sat Dec-15-18 09:30 am
Report Date: 20-DEC-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	608832-001		608832-002		608832-003		608832-004		608832-005		608832-006	
	Field Id:	PH01A		PH01B		PH02A		PH02B		PH03A		PH03B	
	Depth:	.5- ft		1- ft		.5- ft		1- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-12-18 10:45		Dec-13-18 10:46		Dec-13-18 10:15		Dec-13-18 10:20		Dec-13-18 12:15		Dec-13-18 12:20	
BTEX by EPA 8021B	***Extracted:***	Dec-18-18 16:00		Dec-18-18 16:00		Dec-18-18 16:30		Dec-18-18 16:30		Dec-18-18 16:30		Dec-18-18 16:30	
	Analyzed:	Dec-18-18 20:48		Dec-18-18 21:07		Dec-19-18 05:54		Dec-19-18 06:13		Dec-19-18 06:32		Dec-19-18 06:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00402	0.00402	<0.00400	0.00400	<0.00400	0.00400	<0.00401	0.00401	<0.00399	0.00399	<0.00402	0.00402
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300	***Extracted:***	Dec-17-18 16:00		Dec-17-18 16:00		Dec-17-18 16:00		Dec-17-18 16:00		Dec-17-18 16:00		Dec-17-18 16:00	
	Analyzed:	Dec-18-18 02:55		Dec-18-18 03:01		Dec-18-18 03:14		Dec-18-18 03:08		Dec-18-18 03:32		Dec-18-18 03:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		142	5.00	104	5.00	53.1	5.00	70.5	4.95	211	5.00	103	4.95
TPH by SW8015 Mod	***Extracted:***	Dec-19-18 18:00		Dec-19-18 18:00		Dec-19-18 18:00		Dec-19-18 18:00		Dec-19-18 18:00		Dec-19-18 18:00	
	Analyzed:	Dec-19-18 21:59		Dec-19-18 23:00		Dec-19-18 23:21		Dec-19-18 23:42		Dec-20-18 00:03		Dec-20-18 00:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		89.1	15.0	152	15.0	18.8	15.0	16.7	15.0	<15.0	15.0	<14.9	14.9
Motor Oil Range Hydrocarbons (MRO)		39.0	15.0	98.9	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total TPH		128	15.0	251	15.0	18.8	15.0	16.7	15.0	<15.0	15.0	<14.9	14.9

Jessica Kramer
Project Assistant

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-001	Date Collected:	12.12.18 10.45	Sample Depth:	.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.17.18 16.00	Basis:	Wet Weight
Seq Number:	3073190				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**142**	5.00	mg/kg	12.18.18 02.55		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.19.18 18.00	Basis:	Wet Weight
Seq Number:	3073493				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.19.18 21.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	**89.1**	15.0	mg/kg	12.19.18 21.59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**39.0**	15.0	mg/kg	12.19.18 21.59		1
Total TPH	PHC635	**128**	15.0	mg/kg	12.19.18 21.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	12.19.18 21.59	
o-Terphenyl	84-15-1	90	%	70-135	12.19.18 21.59	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-001	Date Collected:	12.12.18 10.45	Sample Depth:	.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.00	Basis:	Wet Weight
Seq Number:	3073325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.18.18 20.48	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.18.18 20.48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.18.18 20.48	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.18.18 20.48	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.18.18 20.48	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.18.18 20.48	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.18.18 20.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.18.18 20.48	
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.18.18 20.48	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH01B**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-002	Date Collected:	12.13.18 10.46	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.17.18 16.00	Basis:	Wet Weight
Seq Number:	3073190				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**104**	5.00	mg/kg	12.18.18 03.01		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.19.18 18.00	Basis:	Wet Weight
Seq Number:	3073493				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.19.18 23.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**152**	15.0	mg/kg	12.19.18 23.00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**98.9**	15.0	mg/kg	12.19.18 23.00		1
Total TPH	PHC635	**251**	15.0	mg/kg	12.19.18 23.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	12.19.18 23.00	
o-Terphenyl	84-15-1	90	%	70-135	12.19.18 23.00	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH01B**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-002	Date Collected:	12.13.18 10.46	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.00	Basis:	Wet Weight
Seq Number:	3073325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.18.18 21.07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.18.18 21.07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.18.18 21.07	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.18.18 21.07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.18.18 21.07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.18.18 21.07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.18.18 21.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	12.18.18 21.07	
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.18.18 21.07	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-003	Date Collected:	12.13.18 10.15	Sample Depth:	.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.17.18 16.00	Basis:	Wet Weight
Seq Number:	3073190				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**53.1**	5.00	mg/kg	12.18.18 03.14		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.19.18 18.00	Basis:	Wet Weight
Seq Number:	3073493				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.19.18 23.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	**18.8**	15.0	mg/kg	12.19.18 23.21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.19.18 23.21	U	1
Total TPH	PHC635	**18.8**	15.0	mg/kg	12.19.18 23.21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	12.19.18 23.21	
o-Terphenyl	84-15-1	90	%	70-135	12.19.18 23.21	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-003	Date Collected:	12.13.18 10.15	Sample Depth:	.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 05.54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 05.54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 05.54	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.19.18 05.54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 05.54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 05.54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 05.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	12.19.18 05.54	
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.19.18 05.54	

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id: **PH02B** Matrix: Soil Date Received: 12.15.18 09.30
Lab Sample Id: 608832-004 Date Collected: 12.13.18 10.20 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 12.17.18 16.00 Basis: Wet Weight
Seq Number: 3073190

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**70.5**	4.95	mg/kg	12.18.18 03.08		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 12.19.18 18.00 Basis: Wet Weight
Seq Number: 3073493

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.19.18 23.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	**16.7**	15.0	mg/kg	12.19.18 23.42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.19.18 23.42	U	1
Total TPH	PHC635	**16.7**	15.0	mg/kg	12.19.18 23.42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	12.19.18 23.42	
o-Terphenyl	84-15-1	89	%	70-135	12.19.18 23.42	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-004	Date Collected:	12.13.18 10.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 06.13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 06.13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 06.13	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.19.18 06.13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 06.13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 06.13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 06.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	12.19.18 06.13	
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.19.18 06.13	

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-005	Date Collected:	12.13.18 12.15	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.17.18 16.00	Basis:	Wet Weight
Seq Number:	3073190				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**211**	5.00	mg/kg	12.18.18 03.32		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.19.18 18.00	Basis:	Wet Weight
Seq Number:	3073493				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.20.18 00.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.20.18 00.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.20.18 00.03	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.20.18 00.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	12.20.18 00.03	
o-Terphenyl	84-15-1	88	%	70-135	12.20.18 00.03	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-005	Date Collected:	12.13.18 12.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 06.32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 06.32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 06.32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.19.18 06.32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 06.32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 06.32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 06.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.19.18 06.32	
1,4-Difluorobenzene	540-36-3	106	%	70-130	12.19.18 06.32	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH03B**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-006	Date Collected:	12.13.18 12.20	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.17.18 16.00	Basis:	Wet Weight
Seq Number:	3073190				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**103**	4.95	mg/kg	12.18.18 03.39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.19.18 18.00	Basis:	Wet Weight
Seq Number:	3073493				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.20.18 00.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.20.18 00.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.20.18 00.24	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.20.18 00.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	12.20.18 00.24	
o-Terphenyl	84-15-1	91	%	70-135	12.20.18 00.24	

Certificate of Analytical Results 608832

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH03B**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608832-006	Date Collected:	12.13.18 12.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.19.18 06.51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.19.18 06.51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.19.18 06.51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.19.18 06.51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.19.18 06.51	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.19.18 06.51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.19.18 06.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.19.18 06.51	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.19.18 06.51	

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 608832

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073190 Matrix: Solid Date Prep: 12.17.18
MB Sample Id: 7668220-1-BLK LCS Sample Id: 7668220-1-BKS LCSD Sample Id: 7668220-1-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	274	110	274	110	90-110	0	20	mg/kg	12.18.18 01:30	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073190 Matrix: Soil Date Prep: 12.17.18
Parent Sample Id: 608832-003 MS Sample Id: 608832-003 S MSD Sample Id: 608832-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	53.1	250	289	94	291	95	90-110	1	20	mg/kg	12.18.18 03:20	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073190 Matrix: Soil Date Prep: 12.17.18
Parent Sample Id: 608888-004 MS Sample Id: 608888-004 S MSD Sample Id: 608888-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.850	248	248	100	254	102	90-110	2	20	mg/kg	12.18.18 01:48	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3073493 Matrix: Solid Date Prep: 12.19.18
MB Sample Id: 7668405-1-BLK LCS Sample Id: 7668405-1-BKS LCSD Sample Id: 7668405-1-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	932	93	921	92	70-135	1	20	mg/kg	12.19.18 21:18	
Diesel Range Organics (DRO)	<8.13	1000	973	97	965	97	70-135	1	20	mg/kg	12.19.18 21:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		125		121		70-135	%	12.19.18 21:18
o-Terphenyl	109		106		106		70-135	%	12.19.18 21:18

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 608832

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3073493 Matrix: Soil Date Prep: 12.19.18
Parent Sample Id: 608832-001 MS Sample Id: 608832-001 S MSD Sample Id: 608832-001 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)	<7.97	996	853	86	868	87	70-135	2	20	mg/kg	12.19.18 22:19	
Diesel Range Organics (DRO)	89.1	996	940	85	954	87	70-135	1	20	mg/kg	12.19.18 22:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		107		70-135	%	12.19.18 22:19
o-Terphenyl	96		95		70-135	%	12.19.18 22:19

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3073325 Matrix: Solid Date Prep: 12.18.18
MB Sample Id: 7668314-1-BLK LCS Sample Id: 7668314-1-BKS LCSD Sample Id: 7668314-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.104	104	0.0983	98	70-130	6	35	mg/kg	12.18.18 18:17	
Toluene	<0.000457	0.100	0.0939	94	0.0896	90	70-130	5	35	mg/kg	12.18.18 18:17	
Ethylbenzene	<0.000566	0.100	0.102	102	0.0979	98	70-130	4	35	mg/kg	12.18.18 18:17	
m,p-Xylenes	<0.00102	0.200	0.186	93	0.178	89	70-130	4	35	mg/kg	12.18.18 18:17	
o-Xylene	<0.000345	0.100	0.0905	91	0.0865	87	70-130	5	35	mg/kg	12.18.18 18:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		104		104		70-130	%	12.18.18 18:17
4-Bromofluorobenzene	82		88		88		70-130	%	12.18.18 18:17

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3073331 Matrix: Solid Date Prep: 12.18.18
MB Sample Id: 7668320-1-BLK LCS Sample Id: 7668320-1-BKS LCSD Sample Id: 7668320-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000384	0.0998	0.0887	89	0.0848	85	70-130	4	35	mg/kg	12.19.18 04:02	
Toluene	<0.000455	0.0998	0.0839	84	0.0803	80	70-130	4	35	mg/kg	12.19.18 04:02	
Ethylbenzene	<0.000564	0.0998	0.0897	90	0.0857	86	70-130	5	35	mg/kg	12.19.18 04:02	
m,p-Xylenes	<0.00101	0.200	0.162	81	0.155	78	70-130	4	35	mg/kg	12.19.18 04:02	
o-Xylene	<0.00200	0.0998	0.0811	81	0.0775	78	70-130	5	35	mg/kg	12.19.18 04:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		101		101		70-130	%	12.19.18 04:02
4-Bromofluorobenzene	81		86		86		70-130	%	12.19.18 04:02

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

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

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

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

QC Summary 608832

LT Environmental, Inc.

BEU Hackberry 34 Battery

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

Seq Number: 3073325 Matrix: Soil Date Prep: 12.18.18

Parent Sample Id: 608779-001 MS Sample Id: 608779-001 S MSD Sample Id: 608779-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000388	0.101	0.0904	90	0.0798	80	70-130	12	35	mg/kg	12.18.18 18:55	
Toluene	<0.000459	0.101	0.0781	77	0.0668	67	70-130	16	35	mg/kg	12.18.18 18:55	X
Ethylbenzene	<0.000569	0.101	0.0816	81	0.0672	67	70-130	19	35	mg/kg	12.18.18 18:55	X
m,p-Xylenes	<0.00102	0.202	0.150	74	0.125	63	70-130	18	35	mg/kg	12.18.18 18:55	X
o-Xylene	<0.000347	0.101	0.0748	74	0.0637	64	70-130	16	35	mg/kg	12.18.18 18:55	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		104		70-130	%	12.18.18 18:55
4-Bromofluorobenzene	89		89		70-130	%	12.18.18 18:55

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

Seq Number: 3073331 Matrix: Soil Date Prep: 12.18.18

Parent Sample Id: 608832-003 MS Sample Id: 608832-003 S MSD Sample Id: 608832-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.0523	52	0.0615	61	70-130	16	35	mg/kg	12.19.18 04:40	X
Toluene	<0.000456	0.100	0.0541	54	0.0634	63	70-130	16	35	mg/kg	12.19.18 04:40	X
Ethylbenzene	<0.000565	0.100	0.0620	62	0.0708	70	70-130	13	35	mg/kg	12.19.18 04:40	X
m,p-Xylenes	<0.00101	0.200	0.123	62	0.137	68	70-130	11	35	mg/kg	12.19.18 04:40	X
o-Xylene	<0.000344	0.100	0.0626	63	0.0700	69	70-130	11	35	mg/kg	12.19.18 04:40	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	12.19.18 04:40
4-Bromofluorobenzene	85		87		70-130	%	12.19.18 04:40

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

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

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

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

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

Setting the Standard since 1990

Stafford, Texas (281-240-4200) | San Antonio, Texas (210-509-3334) | Phoenix, Arizona (480-355-0900)

Dallas Texas (214-902-0300) | Midland, Texas (432-704-5251)

www.xenco.com

Xenco Quote # | Xenco Job # 608832

Client / Reporting Information

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

Company Address: 3300 N "A" St. Building 1 unit 103 Midland, TX 79705

Email: abaker@ltenv.com Phone No: (432) 704-5178

Project Contact: Adrian Baker

Samplers's Name: Anna Byers

Project Information

Project Name/Number: BEU Hackberry 34 Battery

Project Location: Eddy County

Invoice To: Kyle Littrell

PO Number:

Analytical Information

TPH by SW8015 Mod | BTEX BEPA 8021B | Chloride by EPA 300.00

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	Field Comments
1	PH01 A	0.5'	12/12	1045	S	1								X	
2	PH01 B	1.0'	12/13	1046	S	1								X	
3	PH02 A	0.5'		1015	S	1								X	
4	PH02 B	1.0'		1020	S	1								X	
5	PH03 A	1.0'		1215	S	1								X	
6	PH03 B	2.0'	↓	1220	S	1								X	
7															
8															
9															
10															

12/14/18

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 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

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

Notes:

FED-EX / UPS: Tracking #

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

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Anna Byers	12/14/18 0700	1	2	12/14/18 1400	4
3	Relinquished by:	Date Time: 12/15/18 0930	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice ✓ Cooler Temp. 3.8/3.7 Thermo. Corr. Factor RS -0.1

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.

7739821 18173

Final 1.000

Page 22 of 24

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: 12/15/2018 09:30:00 AM

Work Order #: 608832

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

Temperature Measuring device used : R8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Katie Lowe Date: 12/17/2018

Checklist reviewed by: Jessica Kramer Date: 12/18/2018

Analytical Report 609034

for

LT Environmental, Inc.

Project Manager: Adrian Baker

BEU Hackberry 34 Battery

2RP5026

27-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)

27-DEC-18

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

Reference: XENCO Report No(s): **609034**
BEU Hackberry 34 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) 609034. 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. 609034 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Sample Cross Reference 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01A	S	12-14-18 09:35	0.5 ft	609034-001
BH01B	S	12-14-18 09:40	1 ft	609034-002
BH02A	S	12-14-18 10:40	0.5 ft	609034-003
BH02B	S	12-14-18 10:45	1 ft	609034-004
BH03A	S	12-14-18 12:00	0.5 ft	609034-005
BH03B	S	12-14-18 12:15	1 ft	609034-006
BH04A	S	12-14-18 12:25	0.5 ft	609034-007
BH04B	S	12-14-18 12:35	1 ft	609034-008
BH05A	S	12-14-18 12:45	0.5 ft	609034-009
BH05B	S	12-14-18 12:55	1 ft	609034-010
BH06A	S	12-14-18 14:00	0.5 ft	609034-011
BH06B	S	12-14-18 14:05	1 ft	609034-012
BH07A	S	12-14-18 14:15	0.5 ft	609034-013
BH07B	S	12-14-18 14:25	1 ft	609034-014
BH08A	S	12-14-18 14:30	0.5 ft	609034-015
BH08B	S	12-14-18 14:40	1 ft	609034-016
PH04A	S	12-14-18 14:50	0.5 ft	609034-017
PH04B	S	12-14-18 15:05	1 ft	609034-018
BH09A	S	12-14-18 16:00	3 ft	609034-019
BH09B	S	12-14-18 16:15	3.5 ft	609034-020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3073519 Inorganic Anions by EPA 300
Chloride recovered above QC limits in the laboratory control sample. Samples in the analytical batch are: 609034-001.

Compound(s) reported above QC limits for the Blank Spike and Blank Spike Duplicate. Batch passes in accordance to Marginal Exceedence (NELAC Quality Systems, Appendix D). Daily CCV and ICV are within QC Limits. Sample data reported as valid.

Batch: LBA-3073556 Inorganic Anions by EPA 300
Lab Sample ID 609034-019 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 609034-002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3073646 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3073659 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3074107 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 609034

LT Environmental, Inc., Arvada, CO

Project Name: BEU Hackberry 34 Battery

Project Id: 2RP5026
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Tue Dec-18-18 12:15 pm
Report Date: 27-DEC-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609034-001		609034-002		609034-003		609034-004		609034-005		609034-006	
	Field Id:	BH01A		BH01B		BH02A		BH02B		BH03A		BH03B	
	Depth:	0.5- ft		1- ft		0.5- ft		1- ft		0.5- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-14-18 09:35		Dec-14-18 09:40		Dec-14-18 10:40		Dec-14-18 10:45		Dec-14-18 12:00		Dec-14-18 12:15	
BTEX by EPA 8021B	***Extracted:***	Dec-19-18 16:00		Dec-19-18 16:00		Dec-19-18 16:00		Dec-19-18 16:00		Dec-19-18 16:00		Dec-19-18 16:00	
	Analyzed:	Dec-20-18 14:09		Dec-20-18 14:30		Dec-20-18 15:57		Dec-20-18 19:43		Dec-20-18 16:40		Dec-20-18 17:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	Dec-19-18 16:30		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00	
	Analyzed:	Dec-20-18 04:37		Dec-20-18 09:15		Dec-20-18 09:33		Dec-20-18 09:39		Dec-20-18 09:45		Dec-20-18 09:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		681	4.98	879	4.96	28.1	4.97	7.91	4.98	80.4	5.00	118	5.00
TPH by SW8015 Mod	***Extracted:***	Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00	
	Analyzed:	Dec-24-18 12:39		Dec-24-18 13:41		Dec-24-18 14:02		Dec-24-18 14:23		Dec-24-18 14:44		Dec-24-18 15:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9
Diesel Range Organics (DRO)		<15.0	15.0	34.9	15.0	<15.0	15.0	<15.0	15.0	20.9	14.9	72.4	14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	15.1	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9
Total TPH		<15.0	15.0	50.0	15.0	<15.0	15.0	<15.0	15.0	20.9	14.9	72.4	14.9

Certificate of Analysis Summary 609034

LT Environmental, Inc., Arvada, CO

Project Name: BEU Hackberry 34 Battery

Project Id: 2RP5026
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Tue Dec-18-18 12:15 pm
Report Date: 27-DEC-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609034-007		609034-008		609034-009		609034-010		609034-011		609034-012	
	Field Id:	BH04A		BH04B		BH05A		BH05B		BH06A		BH06B	
	Depth:	0.5- ft		1- ft		0.5- ft		1- ft		0.5- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-14-18 12:25		Dec-14-18 12:35		Dec-14-18 12:45		Dec-14-18 12:55		Dec-14-18 14:00		Dec-14-18 14:05	
BTEX by EPA 8021B	***Extracted:***	Dec-19-18 16:00		Dec-19-18 16:00		Dec-19-18 16:00		Dec-19-18 16:00		Dec-19-18 16:00		Dec-19-18 16:00	
	Analyzed:	Dec-20-18 17:23		Dec-20-18 17:44		Dec-20-18 18:05		Dec-20-18 18:38		Dec-20-18 19:00		Dec-20-18 19:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00	
	Analyzed:	Dec-20-18 10:24		Dec-20-18 10:30		Dec-20-18 10:36		Dec-20-18 10:42		Dec-20-18 10:49		Dec-20-18 11:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		18.0	5.00	21.8	4.95	10.4	4.98	7.14	4.97	5.64	5.00	32.6	5.00
TPH by SW8015 Mod	***Extracted:***	Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00	
	Analyzed:	Dec-24-18 15:27		Dec-24-18 15:49		Dec-24-18 16:10		Dec-24-18 16:31		Dec-24-18 17:34		Dec-24-18 17:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		21.2	15.0	17.9	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total TPH		21.2	15.0	17.9	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9

Certificate of Analysis Summary 609034

LT Environmental, Inc., Arvada, CO

Project Name: BEU Hackberry 34 Battery

Project Id: 2RP5026
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Tue Dec-18-18 12:15 pm
Report Date: 27-DEC-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609034-013		609034-014		609034-015		609034-016		609034-017		609034-018	
	Field Id:	BH07A		BH07B		BH08A		BH08B		PH04A		PH04B	
	Depth:	0.5- ft		1- ft		0.5- ft		1- ft		0.5- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-14-18 14:15		Dec-14-18 14:25		Dec-14-18 14:30		Dec-14-18 14:40		Dec-14-18 14:50		Dec-14-18 15:05	
BTEX by EPA 8021B	***Extracted:***	Dec-20-18 17:15		Dec-20-18 17:15		Dec-20-18 17:15		Dec-20-18 17:15		Dec-20-18 17:15		Dec-20-18 17:15	
	Analyzed:	Dec-21-18 08:24		Dec-21-18 08:46		Dec-21-18 09:09		Dec-21-18 09:30		Dec-21-18 09:51		Dec-21-18 10:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00		Dec-20-18 08:00	
	Analyzed:	Dec-20-18 11:36		Dec-20-18 11:42		Dec-20-18 11:49		Dec-20-18 11:55		Dec-20-18 12:01		Dec-20-18 12:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2050	25.0	2080	24.9	3160	24.9	3260	50.0	34.0	4.96	29.8	4.99
TPH by SW8015 Mod	***Extracted:***	Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00		Dec-23-18 15:00	
	Analyzed:	Dec-24-18 18:15		Dec-24-18 18:35		Dec-24-18 18:56		Dec-24-18 19:17		Dec-24-18 19:38		Dec-24-18 19:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	21.1	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		33.9	15.0	<15.0	15.0	195	15.0	180	15.0	25.8	14.9	15.1	15.0
Motor Oil Range Hydrocarbons (MRO)		25.3	15.0	<15.0	15.0	145	15.0	133	15.0	<14.9	14.9	<15.0	15.0
Total TPH		59.2	15.0	<15.0	15.0	361	15.0	313	15.0	25.8	14.9	15.1	15.0

Certificate of Analysis Summary 609034

LT Environmental, Inc., Arvada, CO

Project Name: BEU Hackberry 34 Battery

Project Id: 2RP5026
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Tue Dec-18-18 12:15 pm
Report Date: 27-DEC-18
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	609034-019		609034-020					
	Field Id:	BH09A		BH09B					
	Depth:	3- ft		3.5- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Dec-14-18 16:00		Dec-14-18 16:15					
BTEX by EPA 8021B	***Extracted:***	Dec-20-18 17:15		Dec-26-18 15:00					
	Analyzed:	Dec-21-18 10:35		Dec-27-18 11:20					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00200	0.00200				
Toluene		<0.00200	0.00200	<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200				
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400				
o-Xylene		<0.00200	0.00200	<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200				
Total BTEX		<0.00200	0.00200	<0.00200	0.00200				
Inorganic Anions by EPA 300	***Extracted:***	Dec-20-18 08:00		Dec-20-18 08:00					
	Analyzed:	Dec-20-18 10:55		Dec-20-18 12:13					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		124	4.99	113	5.00				
TPH by SW8015 Mod	***Extracted:***	Dec-23-18 15:00		Dec-23-18 15:00					
	Analyzed:	Dec-24-18 20:20		Dec-24-18 20:41					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	42.9	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0				
Total TPH		<15.0	15.0	42.9	15.0				

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id: **BH01A** Matrix: Soil Date Received:12.18.18 12.15
Lab Sample Id: 609034-001 Date Collected: 12.14.18 09.35 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 12.19.18 16.30 Basis: Wet Weight
Seq Number: 3073519

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**681**	4.98	mg/kg	12.20.18 04.37		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 12.23.18 15.00 Basis: Wet Weight
Seq Number: 3073958

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 12.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.24.18 12.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 12.39	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.24.18 12.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	12.24.18 12.39	
o-Terphenyl	84-15-1	92	%	70-135	12.24.18 12.39	

Certificate of Analytical Results 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-001	Date Collected:	12.14.18 09.35	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 14.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 14.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 14.09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 14.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 14.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 14.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 14.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.20.18 14.09	
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.20.18 14.09	

Certificate of Analytical Results 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH01B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-002	Date Collected:	12.14.18 09.40	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**879**	4.96	mg/kg	12.20.18 09.15		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 13.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	**34.9**	15.0	mg/kg	12.24.18 13.41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**15.1**	15.0	mg/kg	12.24.18 13.41		1
Total TPH	PHC635	**50.0**	15.0	mg/kg	12.24.18 13.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	12.24.18 13.41	
o-Terphenyl	84-15-1	86	%	70-135	12.24.18 13.41	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH01B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-002	Date Collected:	12.14.18 09.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 14.30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 14.30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 14.30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 14.30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 14.30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 14.30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 14.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.20.18 14.30	
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.20.18 14.30	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-003	Date Collected:	12.14.18 10.40	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**28.1**	4.97	mg/kg	12.20.18 09.33		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 14.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.24.18 14.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 14.02	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.24.18 14.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.24.18 14.02	
o-Terphenyl	84-15-1	103	%	70-135	12.24.18 14.02	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-003	Date Collected:	12.14.18 10.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 15.57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 15.57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 15.57	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 15.57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 15.57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 15.57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 15.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.20.18 15.57	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.20.18 15.57	

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BEU Hackberry 34 Battery

Sample Id: **BH02B** Matrix: Soil Date Received:12.18.18 12.15
Lab Sample Id: 609034-004 Date Collected: 12.14.18 10.45 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 12.20.18 08.00 Basis: Wet Weight
Seq Number: 3073556

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.91**	4.98	mg/kg	12.20.18 09.39		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 12.23.18 15.00 Basis: Wet Weight
Seq Number: 3073958

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 14.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.24.18 14.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 14.23	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.24.18 14.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.24.18 14.23	
o-Terphenyl	84-15-1	105	%	70-135	12.24.18 14.23	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH02B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-004	Date Collected:	12.14.18 10.45	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 19.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 19.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 19.43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 19.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 19.43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 19.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 19.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.20.18 19.43	
1,4-Difluorobenzene	540-36-3	88	%	70-130	12.20.18 19.43	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH03A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-005	Date Collected:	12.14.18 12.00	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**80.4**	5.00	mg/kg	12.20.18 09.45		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.24.18 14.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	**20.9**	14.9	mg/kg	12.24.18 14.44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.24.18 14.44	U	1
Total TPH	PHC635	**20.9**	14.9	mg/kg	12.24.18 14.44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	12.24.18 14.44	
o-Terphenyl	84-15-1	94	%	70-135	12.24.18 14.44	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH03A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-005	Date Collected:	12.14.18 12.00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 16.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 16.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 16.40	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 16.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 16.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 16.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 16.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.20.18 16.40	
1,4-Difluorobenzene	540-36-3	93	%	70-130	12.20.18 16.40	

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BEU Hackberry 34 Battery

Sample Id:	**BH03B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-006	Date Collected:	12.14.18 12.15	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**118**	5.00	mg/kg	12.20.18 09.52		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.24.18 15.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	**72.4**	14.9	mg/kg	12.24.18 15.06		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.24.18 15.06	U	1
Total TPH	PHC635	**72.4**	14.9	mg/kg	12.24.18 15.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.24.18 15.06	
o-Terphenyl	84-15-1	101	%	70-135	12.24.18 15.06	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH03B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-006	Date Collected:	12.14.18 12.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 17.01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 17.01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 17.01	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 17.01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 17.01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 17.01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 17.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.20.18 17.01	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.20.18 17.01	

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BEU Hackberry 34 Battery

Sample Id:	**BH04A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-007	Date Collected:	12.14.18 12.25	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.0**	5.00	mg/kg	12.20.18 10.24		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 15.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	**21.2**	15.0	mg/kg	12.24.18 15.27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 15.27	U	1
Total TPH	PHC635	**21.2**	15.0	mg/kg	12.24.18 15.27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	12.24.18 15.27	
o-Terphenyl	84-15-1	93	%	70-135	12.24.18 15.27	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH04A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-007	Date Collected:	12.14.18 12.25	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 17.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 17.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 17.23	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 17.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 17.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 17.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 17.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.20.18 17.23	
1,4-Difluorobenzene	540-36-3	92	%	70-130	12.20.18 17.23	

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BEU Hackberry 34 Battery

Sample Id:	**BH04B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-008	Date Collected:	12.14.18 12.35	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.8**	4.95	mg/kg	12.20.18 10.30		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 15.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**17.9**	15.0	mg/kg	12.24.18 15.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 15.49	U	1
Total TPH	PHC635	**17.9**	15.0	mg/kg	12.24.18 15.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	12.24.18 15.49	
o-Terphenyl	84-15-1	95	%	70-135	12.24.18 15.49	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH04B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-008	Date Collected:	12.14.18 12.35	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 17.44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 17.44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 17.44	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 17.44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 17.44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 17.44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 17.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	12.20.18 17.44	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.20.18 17.44	

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BEU Hackberry 34 Battery

Sample Id:	**BH05A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-009	Date Collected:	12.14.18 12.45	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.4**	4.98	mg/kg	12.20.18 10.36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 16.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.24.18 16.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 16.10	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.24.18 16.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	12.24.18 16.10	
o-Terphenyl	84-15-1	91	%	70-135	12.24.18 16.10	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH05A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-009	Date Collected:	12.14.18 12.45	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 18.05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 18.05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 18.05	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 18.05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 18.05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 18.05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 18.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.20.18 18.05	
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.20.18 18.05	

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BEU Hackberry 34 Battery

Sample Id: **BH05B** Matrix: Soil Date Received:12.18.18 12.15
Lab Sample Id: 609034-010 Date Collected: 12.14.18 12.55 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 12.20.18 08.00 Basis: Wet Weight
Seq Number: 3073556

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.14**	4.97	mg/kg	12.20.18 10.42		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 12.23.18 15.00 Basis: Wet Weight
Seq Number: 3073958

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 16.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.24.18 16.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 16.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.24.18 16.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.24.18 16.31	
o-Terphenyl	84-15-1	97	%	70-135	12.24.18 16.31	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH05B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-010	Date Collected:	12.14.18 12.55	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 18.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 18.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 18.38	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 18.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 18.38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 18.38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 18.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.20.18 18.38	
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.20.18 18.38	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH06A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-011	Date Collected:	12.14.18 14.00	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.64**	5.00	mg/kg	12.20.18 10.49		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 17.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.24.18 17.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 17.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.24.18 17.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	12.24.18 17.34	
o-Terphenyl	84-15-1	92	%	70-135	12.24.18 17.34	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH06A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-011	Date Collected:	12.14.18 14.00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 19.00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 19.00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 19.00	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 19.00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 19.00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 19.00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 19.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.20.18 19.00	
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.20.18 19.00	

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BEU Hackberry 34 Battery

Sample Id:	**BH06B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-012	Date Collected:	12.14.18 14.05	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.6**	5.00	mg/kg	12.20.18 11.15		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.24.18 17.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.24.18 17.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.24.18 17.54	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.24.18 17.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	12.24.18 17.54	
o-Terphenyl	84-15-1	93	%	70-135	12.24.18 17.54	

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BEU Hackberry 34 Battery

Sample Id:	**BH06B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-012	Date Collected:	12.14.18 14.05	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 16.00	Basis:	Wet Weight
Seq Number:	3073646				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 19.21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 19.21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 19.21	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 19.21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 19.21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 19.21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 19.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.20.18 19.21	
1,4-Difluorobenzene	540-36-3	90	%	70-130	12.20.18 19.21	

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BEU Hackberry 34 Battery

Sample Id:	**BH07A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-013	Date Collected:	12.14.18 14.15	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2050**	25.0	mg/kg	12.20.18 11.36		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 18.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	**33.9**	15.0	mg/kg	12.24.18 18.15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**25.3**	15.0	mg/kg	12.24.18 18.15		1
Total TPH	PHC635	**59.2**	15.0	mg/kg	12.24.18 18.15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	12.24.18 18.15	
o-Terphenyl	84-15-1	97	%	70-135	12.24.18 18.15	

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BEU Hackberry 34 Battery

Sample Id:	**BH07A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-013	Date Collected:	12.14.18 14.15	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.20.18 17.15	Basis:	Wet Weight
Seq Number:	3073659				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.18 08.24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.18 08.24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.18 08.24	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.18 08.24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.18 08.24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.18 08.24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.18 08.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	12.21.18 08.24	
4-Bromofluorobenzene	460-00-4	110	%	70-130	12.21.18 08.24	

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BEU Hackberry 34 Battery

Sample Id: **BH07B** Matrix: Soil Date Received:12.18.18 12.15
Lab Sample Id: 609034-014 Date Collected: 12.14.18 14.25 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 12.20.18 08.00 Basis: Wet Weight
Seq Number: 3073556

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2080**	24.9	mg/kg	12.20.18 11.42		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 12.23.18 15.00 Basis: Wet Weight
Seq Number: 3073958

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 18.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.24.18 18.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 18.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.24.18 18.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	12.24.18 18.35	
o-Terphenyl	84-15-1	94	%	70-135	12.24.18 18.35	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH07B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-014	Date Collected:	12.14.18 14.25	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.20.18 17.15	Basis:	Wet Weight
Seq Number:	3073659				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.18 08.46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.18 08.46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.18 08.46	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.18 08.46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.18 08.46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.18 08.46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.18 08.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.21.18 08.46	
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.21.18 08.46	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH08A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-015	Date Collected:	12.14.18 14.30	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3160**	24.9	mg/kg	12.20.18 11.49		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**21.1**	15.0	mg/kg	12.24.18 18.56		1
Diesel Range Organics (DRO)	C10C28DRO	**195**	15.0	mg/kg	12.24.18 18.56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**145**	15.0	mg/kg	12.24.18 18.56		1
Total TPH	PHC635	**361**	15.0	mg/kg	12.24.18 18.56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.24.18 18.56	
o-Terphenyl	84-15-1	100	%	70-135	12.24.18 18.56	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH08A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-015	Date Collected:	12.14.18 14.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.20.18 17.15	Basis:	Wet Weight
Seq Number:	3073659				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.18 09.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.18 09.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.18 09.09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.18 09.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.18 09.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.18 09.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.18 09.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.21.18 09.09	
4-Bromofluorobenzene	460-00-4	125	%	70-130	12.21.18 09.09	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH08B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-016	Date Collected:	12.14.18 14.40	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3260**	50.0	mg/kg	12.20.18 11.55		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 19.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	**180**	15.0	mg/kg	12.24.18 19.17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**133**	15.0	mg/kg	12.24.18 19.17		1
Total TPH	PHC635	**313**	15.0	mg/kg	12.24.18 19.17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	12.24.18 19.17	
o-Terphenyl	84-15-1	95	%	70-135	12.24.18 19.17	

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LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH08B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-016	Date Collected:	12.14.18 14.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.20.18 17.15	Basis:	Wet Weight
Seq Number:	3073659				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.18 09.30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.18 09.30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.18 09.30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.18 09.30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.18 09.30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.18 09.30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.18 09.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	12.21.18 09.30	
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.21.18 09.30	

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id: **PH04A** Matrix: Soil Date Received:12.18.18 12.15
Lab Sample Id: 609034-017 Date Collected: 12.14.18 14.50 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 12.20.18 08.00 Basis: Wet Weight
Seq Number: 3073556

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.0**	4.96	mg/kg	12.20.18 12.01		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 12.23.18 15.00 Basis: Wet Weight
Seq Number: 3073958

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.24.18 19.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	**25.8**	14.9	mg/kg	12.24.18 19.38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.24.18 19.38	U	1
Total TPH	PHC635	**25.8**	14.9	mg/kg	12.24.18 19.38		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.24.18 19.38	
o-Terphenyl	84-15-1	91	%	70-135	12.24.18 19.38	

Certificate of Analytical Results 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-017	Date Collected:	12.14.18 14.50	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.20.18 17.15	Basis:	Wet Weight
Seq Number:	3073659				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.18 09.51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.18 09.51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.18 09.51	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.18 09.51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.18 09.51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.18 09.51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.18 09.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.21.18 09.51	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.21.18 09.51	

Certificate of Analytical Results 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH04B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-018	Date Collected:	12.14.18 15.05	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.8**	4.99	mg/kg	12.20.18 12.07		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 19.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	**15.1**	15.0	mg/kg	12.24.18 19.59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 19.59	U	1
Total TPH	PHC635	**15.1**	15.0	mg/kg	12.24.18 19.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	12.24.18 19.59	
o-Terphenyl	84-15-1	89	%	70-135	12.24.18 19.59	

Certificate of Analytical Results 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**PH04B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-018	Date Collected:	12.14.18 15.05	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.20.18 17.15	Basis:	Wet Weight
Seq Number:	3073659				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.18 10.14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.18 10.14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.18 10.14	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.18 10.14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.18 10.14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.18 10.14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.18 10.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.21.18 10.14	
4-Bromofluorobenzene	460-00-4	123	%	70-130	12.21.18 10.14	

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id: **BH09A** Matrix: Soil Date Received:12.18.18 12.15
Lab Sample Id: 609034-019 Date Collected: 12.14.18 16.00 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 12.20.18 08.00 Basis: Wet Weight
Seq Number: 3073556

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**124**	4.99	mg/kg	12.20.18 10.55		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 12.23.18 15.00 Basis: Wet Weight
Seq Number: 3073958

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 20.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.24.18 20.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 20.20	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.24.18 20.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.24.18 20.20	
o-Terphenyl	84-15-1	92	%	70-135	12.24.18 20.20	

Certificate of Analytical Results 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH09A**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-019	Date Collected:	12.14.18 16.00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.20.18 17.15	Basis:	Wet Weight
Seq Number:	3073659				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.18 10.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.18 10.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.18 10.35	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.18 10.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.18 10.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.18 10.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.18 10.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.21.18 10.35	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.21.18 10.35	

Certificate of Analytical Results 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH09B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-020	Date Collected:	12.14.18 16.15	Sample Depth:	3.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 08.00	Basis:	Wet Weight
Seq Number:	3073556				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**113**	5.00	mg/kg	12.20.18 12.13		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.23.18 15.00	Basis:	Wet Weight
Seq Number:	3073958				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.24.18 20.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	**42.9**	15.0	mg/kg	12.24.18 20.41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.24.18 20.41	U	1
Total TPH	PHC635	**42.9**	15.0	mg/kg	12.24.18 20.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	12.24.18 20.41	
o-Terphenyl	84-15-1	91	%	70-135	12.24.18 20.41	

Certificate of Analytical Results 609034

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH09B**	Matrix:	Soil	Date Received:	12.18.18 12.15
Lab Sample Id:	609034-020	Date Collected:	12.14.18 16.15	Sample Depth:	3.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.26.18 15.00	Basis:	Wet Weight
Seq Number:	3074107				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.18 11.20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.18 11.20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.18 11.20	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.27.18 11.20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.18 11.20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.18 11.20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.18 11.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.27.18 11.20	
4-Bromofluorobenzene	460-00-4	89	%	70-130	12.27.18 11.20	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

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 609034

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073519 Matrix: Solid Date Prep: 12.19.18
MB Sample Id: 7668399-1-BLK LCS Sample Id: 7668399-1-BKS LCSD Sample Id: 7668399-1-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	312	125	273	109	90-110	13	20	mg/kg	12.20.18 01:28	H

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073556 Matrix: Solid Date Prep: 12.20.18
MB Sample Id: 7668400-1-BLK LCS Sample Id: 7668400-1-BKS LCSD Sample Id: 7668400-1-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	255	102	257	103	90-110	1	20	mg/kg	12.20.18 09:02	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073519 Matrix: Soil Date Prep: 12.19.18
Parent Sample Id: 609032-005 MS Sample Id: 609032-005 S MSD Sample Id: 609032-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.855	249	268	108	273	110	90-110	2	20	mg/kg	12.20.18 01:46	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073519 Matrix: Soil Date Prep: 12.19.18
Parent Sample Id: 609033-006 MS Sample Id: 609033-006 S MSD Sample Id: 609033-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.27	250	274	109	274	109	90-110	0	20	mg/kg	12.20.18 03:18	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073556 Matrix: Soil Date Prep: 12.20.18
Parent Sample Id: 609034-002 MS Sample Id: 609034-002 S MSD Sample Id: 609034-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	879	248	1090	85	1090	85	90-110	0	20	mg/kg	12.20.18 09:21	X

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 609034

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073556 Matrix: Soil Date Prep: 12.20.18
Parent Sample Id: 609034-019 MS Sample Id: 609034-019 S MSD Sample Id: 609034-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	124	250	379	102	387	105	90-110	2	20	mg/kg	12.20.18 11:01	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3073958 Matrix: Solid Date Prep: 12.23.18
MB Sample Id: 7668691-1-BLK LCS Sample Id: 7668691-1-BKS LCSD Sample Id: 7668691-1-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	970	97	932	93	70-135	4	20	mg/kg	12.24.18 11:59	
Diesel Range Organics (DRO)	<8.13	1000	996	100	980	98	70-135	2	20	mg/kg	12.24.18 11:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		123		122		70-135	%	12.24.18 11:59
o-Terphenyl	112		119		110		70-135	%	12.24.18 11:59

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3073958 Matrix: Soil Date Prep: 12.23.18
Parent Sample Id: 609034-001 MS Sample Id: 609034-001 S MSD Sample Id: 609034-001 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)	<7.99	998	996	100	902	90	70-135	10	20	mg/kg	12.24.18 13:00	
Diesel Range Organics (DRO)	13.3	998	1010	100	907	90	70-135	11	20	mg/kg	12.24.18 13:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		104		70-135	%	12.24.18 13:00
o-Terphenyl	99		92		70-135	%	12.24.18 13:00

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 609034

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3073646 Matrix: Solid Date Prep: 12.19.18
MB Sample Id: 7668531-1-BLK LCS Sample Id: 7668531-1-BKS LCSD Sample Id: 7668531-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.113	113	0.126	126	70-130	11	35	mg/kg	12.19.18 09:32	
Toluene	<0.00200	0.100	0.101	101	0.102	102	70-130	1	35	mg/kg	12.19.18 09:32	
Ethylbenzene	<0.00200	0.100	0.111	111	0.127	127	70-130	13	35	mg/kg	12.19.18 09:32	
m,p-Xylenes	<0.00400	0.200	0.228	114	0.259	130	70-130	13	35	mg/kg	12.19.18 09:32	
o-Xylene	<0.00200	0.100	0.107	107	0.122	122	70-130	13	35	mg/kg	12.19.18 09:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		103		111		70-130	%	12.19.18 09:32
4-Bromofluorobenzene	100		89		96		70-130	%	12.19.18 09:32

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3073659 Matrix: Solid Date Prep: 12.20.18
MB Sample Id: 7668541-1-BLK LCS Sample Id: 7668541-1-BKS LCSD Sample Id: 7668541-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0978	98	0.0858	86	70-130	13	35	mg/kg	12.20.18 20:51	
Toluene	<0.00200	0.100	0.0825	83	0.0847	85	70-130	3	35	mg/kg	12.20.18 20:51	
Ethylbenzene	<0.00200	0.100	0.100	100	0.0914	91	70-130	9	35	mg/kg	12.20.18 20:51	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.191	96	70-130	6	35	mg/kg	12.20.18 20:51	
o-Xylene	<0.00200	0.100	0.0962	96	0.0889	89	70-130	8	35	mg/kg	12.20.18 20:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		128		100		70-130	%	12.20.18 20:51
4-Bromofluorobenzene	121		111		81		70-130	%	12.20.18 20:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3074107 Matrix: Solid Date Prep: 12.26.18
MB Sample Id: 7668790-1-BLK LCS Sample Id: 7668790-1-BKS LCSD Sample Id: 7668790-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.113	113	0.104	104	70-130	8	35	mg/kg	12.27.18 09:27	
Toluene	<0.000456	0.100	0.0947	95	0.0905	91	70-130	5	35	mg/kg	12.27.18 09:27	
Ethylbenzene	<0.000565	0.100	0.0991	99	0.0952	95	70-130	4	35	mg/kg	12.27.18 09:27	
m,p-Xylenes	<0.00101	0.200	0.179	90	0.173	87	70-130	3	35	mg/kg	12.27.18 09:27	
o-Xylene	<0.000344	0.100	0.0885	89	0.0865	87	70-130	2	35	mg/kg	12.27.18 09:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		107		106		70-130	%	12.27.18 09:27
4-Bromofluorobenzene	79		85		88		70-130	%	12.27.18 09:27

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 609034

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3073646 Matrix: Soil Date Prep: 12.19.18
Parent Sample Id: 608880-021 MS Sample Id: 608880-021 S MSD Sample Id: 608880-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0633	63	0.0835	84	70-130	28	35	mg/kg	12.20.18 09:27	X
Toluene	<0.00200	0.100	0.0556	56	0.0767	77	70-130	32	35	mg/kg	12.20.18 09:27	X
Ethylbenzene	<0.00200	0.100	0.0675	68	0.0851	85	70-130	23	35	mg/kg	12.20.18 09:27	X
m,p-Xylenes	<0.00400	0.200	0.123	62	0.159	80	70-130	26	35	mg/kg	12.20.18 09:27	X
o-Xylene	<0.00200	0.100	0.0673	67	0.0825	83	70-130	20	35	mg/kg	12.20.18 09:27	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	122		115		70-130	%	12.20.18 09:27
4-Bromofluorobenzene	109		110		70-130	%	12.20.18 09:27

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3073659 Matrix: Soil Date Prep: 12.20.18
Parent Sample Id: 609503-001 MS Sample Id: 609503-001 S MSD Sample Id: 609503-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.0980	98	70-130	6	35	mg/kg	12.20.18 22:03	
Toluene	<0.00200	0.100	0.0868	87	0.0824	82	70-130	5	35	mg/kg	12.20.18 22:03	
Ethylbenzene	<0.00200	0.100	0.105	105	0.100	100	70-130	5	35	mg/kg	12.20.18 22:03	
m,p-Xylenes	<0.00400	0.200	0.213	107	0.202	101	70-130	5	35	mg/kg	12.20.18 22:03	
o-Xylene	<0.00200	0.100	0.102	102	0.0978	98	70-130	4	35	mg/kg	12.20.18 22:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	122		122		70-130	%	12.20.18 22:03
4-Bromofluorobenzene	119		123		70-130	%	12.20.18 22:03

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3074107 Matrix: Soil Date Prep: 12.26.18
Parent Sample Id: 609206-043 MS Sample Id: 609206-043 S MSD Sample Id: 609206-043 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	0.0903	90	0.0986	98	70-130	9	35	mg/kg	12.27.18 10:05	
Toluene	<0.000457	0.100	0.0800	80	0.0854	85	70-130	7	35	mg/kg	12.27.18 10:05	
Ethylbenzene	<0.000566	0.100	0.0847	85	0.0902	89	70-130	6	35	mg/kg	12.27.18 10:05	
m,p-Xylenes	<0.00102	0.200	0.154	77	0.164	81	70-130	6	35	mg/kg	12.27.18 10:05	
o-Xylene	<0.000345	0.100	0.0765	77	0.0802	79	70-130	5	35	mg/kg	12.27.18 10:05	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		107		70-130	%	12.27.18 10:05
4-Bromofluorobenzene	88		88		70-130	%	12.27.18 10:05

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

Chain of Custody

XENCO LABORATORIES

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

Work Order No: 609034

Page 1 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

Work Order Comments

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

Project Name:	BEU Hackberry 34 Battery	Turn Around	
Project Number:	2RP5026	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Anna Byers	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.0 / 1.5	Thermometer ID	
Received Intact:	(Yes) No	R8	
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)
BH01 A	S	12/14	09:35	0.5'	1	X	X	X
BH01 B	S		09:40	1.5'	1	X	X	X
BH02 A	S		10:40	0.5'	1	X	X	X
BH02 B	S		10:45	1.5'	1	X	X	X
BH03 A	S		12:00	0.5'	1	X	X	X
BH03 B	S		12:15	1.0'	1	X	X	X
BH04 A	S		12:25	0.5'	1	X	X	X
BH04 B	S		12:35	1.0'	1	X	X	X
BH05 A	S		12:45	0.5'	1	X	X	X
BH05 B	S		12:55	1.0'	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 Anna Byers		12/14/18 19:00	2		12/17/18 @0935
3		12/17/18 17:30	4		12/18/18 1215
5			6		

Revised Date 051418 Rev. 2018.1

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Chain of Custody

Work Order No: 609034

XENCO LABORATORIES

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

Work Order Comments

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

Project Name:	BEU Hackberry 34 Battery	Turn Around	
Project Number:	2RP5026	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Anna Byers	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.6/1.5	Thermometer ID	
Received Intact:	(Yes) No	R8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
BH06 A	S	12/14	14:00	0.5'	1	X	X	X
BH06 B	S		14:05	1.5'	1	X	X	X
BH07 A	S		14:15	0.5'	1	X	X	X
BH07 B	S		14:25	1.0'	1	X	X	X
BH08 A	S		14:30	0.5'	1	X	X	X
BH08 B	S		14:40	1.0'	1	X	X	X
PH04 A	S		14:50	0.5'	1	X	X	X
PH04 B	S		15:05	1.0'	1	X	X	X
BH09 A	S		16:00	3.0'	1	X	X	X
BH09 B	S	↓	16:15	3.5'	1	X	X	X

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 Anna Byers		12/14/18 19:00	2		12/17/18 @ 0935
3		12/17/18 15:30	4		12/18/18 1215
5			6		

Revised Date 051418 Rev. 2018.1

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Final 1.000

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ORIGIN ID:CAOA (575) 887-6245
XENCO
PAC N MAL
910 W PIERCE ST
CARLSBAD, NM 88220
UNITED STATES US

SHIP DATE: 17DEC18
ACTWGT: 74.00 LB
CAD: 101813706/INET4040
DIMS: 26x14x15 IN

BILL RECIPIENT

TO HOLD FOR XENCO
FEDEX EXPRESS SHIP CENTER
FEDEX SHIP CENTER
3600 COUNTY RD 1276 S
MIDLAND TX 79711
(806) 794-1296

REF:
INV:
PO:
DEPT:

552J2/E4AF/DCA5

J18211808150luv

TUE - 18 DEC HOLD
STANDARD OVERNIGHT
HLD

TRK# 0201 7739 9868 0930

41 MAFA

MAFA
LBB
TX-US

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.

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12/18/2018 12:15:00 PM

Work Order #: 609034

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)?	1.5
#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: 12/18/2018

Checklist reviewed by: Jessica Kramer Date: 12/18/2018

Analytical Report 609172

for

LT Environmental, Inc.

Project Manager: Adrian Baker

BEU Hackberry 34 Battery

27-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)

27-DEC-18

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

Reference: XENCO Report No(s): **609172**
BEU Hackberry 34 Battery
Project Address: Eddy County 2RP5026

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) 609172. 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. 609172 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Sample Cross Reference 609172

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH10A	S	12-17-18 09:35	0.5 ft	609172-001
BH10B	S	12-17-18 10:30	4.5 ft	609172-002
BH11A	S	12-17-18 11:20	0.5 ft	609172-003
BH11B	S	12-17-18 11:40	2 ft	609172-004

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3073589 BTEX by EPA 8021B

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

Certificate of Analysis Summary 609172

LT Environmental, Inc., Arvada, CO

Project Name: BEU Hackberry 34 Battery

Project Id:
Contact: Adrian Baker
Project Location: Eddy County 2RP5026

Date Received in Lab: Wed Dec-19-18 10:30 am
Report Date: 27-DEC-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609172-001		609172-002		609172-003		609172-004					
	Field Id:	BH10A		BH10B		BH11A		BH11B					
	Depth:	0.5- ft		4.5- ft		0.5- ft		2- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Dec-17-18 09:35		Dec-17-18 10:30		Dec-17-18 11:20		Dec-17-18 11:40					
BTEX by EPA 8021B	***Extracted:***	Dec-19-18 14:30		Dec-19-18 14:30		Dec-19-18 14:30		Dec-19-18 14:30					
	Analyzed:	Dec-20-18 20:24		Dec-20-18 20:44		Dec-20-18 21:03		Dec-20-18 21:22					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200				
Toluene		0.00592	0.00200	<0.00200	0.00200	<0.00200	0.00200	0.00738	0.00200				
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	0.00361	0.00200				
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400				
o-Xylene		0.0102	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200				
Total Xylenes		0.0102	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200				
Total BTEX		0.0161	0.00200	<0.00200	0.00200	<0.00200	0.00200	0.0110	0.00200				
Inorganic Anions by EPA 300	***Extracted:***	Dec-20-18 14:30		Dec-20-18 14:30		Dec-20-18 14:30		Dec-20-18 14:30					
	Analyzed:	Dec-21-18 02:47		Dec-21-18 02:53		Dec-21-18 02:59		Dec-21-18 03:06					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		1240	4.99	1940	24.9	34.6	4.95	12.2	5.00				
TPH by SW8015 Mod	***Extracted:***	Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00					
	Analyzed:	Dec-22-18 17:41		Dec-22-18 18:01		Dec-22-18 19:02		Dec-22-18 19:23					
	Units/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				
Diesel Range Organics (DRO)		257	15.0	<14.9	14.9	280	15.0	18.6	15.0				
Motor Oil Range Hydrocarbons (MRO)		46.6	15.0	<14.9	14.9	55.3	15.0	<15.0	15.0				
Total TPH		304	15.0	<14.9	14.9	335	15.0	18.6	15.0				

Jessica Kramer
Project Assistant

Certificate of Analytical Results 609172

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH10A**	Matrix:	Soil	Date Received:	12.19.18 10.30
Lab Sample Id:	609172-001	Date Collected:	12.17.18 09.35	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 14.30	Basis:	Wet Weight
Seq Number:	3073884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1240**	4.99	mg/kg	12.21.18 02.47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073906				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.22.18 17.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	**257**	15.0	mg/kg	12.22.18 17.41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**46.6**	15.0	mg/kg	12.22.18 17.41		1
Total TPH	PHC635	**304**	15.0	mg/kg	12.22.18 17.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.22.18 17.41	
o-Terphenyl	84-15-1	108	%	70-135	12.22.18 17.41	

Certificate of Analytical Results 609172

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH10A**	Matrix:	Soil	Date Received:	12.19.18 10.30
Lab Sample Id:	609172-001	Date Collected:	12.17.18 09.35	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 14.30	Basis:	Wet Weight
Seq Number:	3073589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 20.24	U	1
Toluene	108-88-3	**0.00592**	0.00200	mg/kg	12.20.18 20.24		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 20.24	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 20.24	U	1
o-Xylene	95-47-6	**0.0102**	0.00200	mg/kg	12.20.18 20.24		1
Total Xylenes	1330-20-7	**0.0102**	0.00200	mg/kg	12.20.18 20.24		1
Total BTEX		**0.0161**	0.00200	mg/kg	12.20.18 20.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.20.18 20.24	
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.20.18 20.24	

Certificate of Analytical Results 609172

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH10B**	Matrix:	Soil	Date Received:	12.19.18 10.30
Lab Sample Id:	609172-002	Date Collected:	12.17.18 10.30	Sample Depth:	4.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 14.30	Basis:	Wet Weight
Seq Number:	3073884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1940**	24.9	mg/kg	12.21.18 02.53		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073906				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.22.18 18.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.22.18 18.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.22.18 18.01	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.22.18 18.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.22.18 18.01	
o-Terphenyl	84-15-1	101	%	70-135	12.22.18 18.01	

Certificate of Analytical Results 609172

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH10B**	Matrix:	Soil	Date Received:	12.19.18 10.30
Lab Sample Id:	609172-002	Date Collected:	12.17.18 10.30	Sample Depth:	4.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 14.30	Basis:	Wet Weight
Seq Number:	3073589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 20.44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 20.44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 20.44	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 20.44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 20.44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 20.44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 20.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.20.18 20.44	
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.20.18 20.44	

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id: **BH11A** Matrix: Soil Date Received:12.19.18 10.30
Lab Sample Id: 609172-003 Date Collected: 12.17.18 11.20 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 12.20.18 14.30 Basis: Wet Weight
Seq Number: 3073884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.6**	4.95	mg/kg	12.21.18 02.59		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 12.21.18 17.00 Basis: Wet Weight
Seq Number: 3073906

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.22.18 19.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	**280**	15.0	mg/kg	12.22.18 19.02		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**55.3**	15.0	mg/kg	12.22.18 19.02		1
Total TPH	PHC635	**335**	15.0	mg/kg	12.22.18 19.02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	12.22.18 19.02	
o-Terphenyl	84-15-1	108	%	70-135	12.22.18 19.02	

Certificate of Analytical Results 609172

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH11A**	Matrix:	Soil	Date Received:	12.19.18 10.30
Lab Sample Id:	609172-003	Date Collected:	12.17.18 11.20	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 14.30	Basis:	Wet Weight
Seq Number:	3073589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 21.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.20.18 21.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.20.18 21.03	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 21.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 21.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 21.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.20.18 21.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.20.18 21.03	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.20.18 21.03	

Certificate of Analytical Results 609172

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH11B**	Matrix:	Soil	Date Received:	12.19.18 10.30
Lab Sample Id:	609172-004	Date Collected:	12.17.18 11.40	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.18 14.30	Basis:	Wet Weight
Seq Number:	3073884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.2**	5.00	mg/kg	12.21.18 03.06		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073906				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.22.18 19.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	**18.6**	15.0	mg/kg	12.22.18 19.23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.22.18 19.23	U	1
Total TPH	PHC635	**18.6**	15.0	mg/kg	12.22.18 19.23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.22.18 19.23	
o-Terphenyl	84-15-1	100	%	70-135	12.22.18 19.23	

Certificate of Analytical Results 609172

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**BH11B**	Matrix:	Soil	Date Received:	12.19.18 10.30
Lab Sample Id:	609172-004	Date Collected:	12.17.18 11.40	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 14.30	Basis:	Wet Weight
Seq Number:	3073589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.20.18 21.22	U	1
Toluene	108-88-3	**0.00738**	0.00200	mg/kg	12.20.18 21.22		1
Ethylbenzene	100-41-4	**0.00361**	0.00200	mg/kg	12.20.18 21.22		1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.20.18 21.22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.20.18 21.22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.20.18 21.22	U	1
Total BTEX		**0.0110**	0.00200	mg/kg	12.20.18 21.22		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.20.18 21.22	
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.20.18 21.22	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 609172

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073884 Matrix: Solid Date Prep: 12.20.18
MB Sample Id: 7668542-1-BLK LCS Sample Id: 7668542-1-BKS LCSD Sample Id: 7668542-1-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	268	107	272	109	90-110	1	20	mg/kg	12.20.18 23:59	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073884 Matrix: Soil Date Prep: 12.20.18
Parent Sample Id: 609123-014 MS Sample Id: 609123-014 S MSD Sample Id: 609123-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	511	249	738	91	725	86	90-110	2	20	mg/kg	12.21.18 00:19	X

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3073884 Matrix: Soil Date Prep: 12.20.18
Parent Sample Id: 609123-020 MS Sample Id: 609123-020 S MSD Sample Id: 609123-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.4	250	299	108	296	107	90-110	1	20	mg/kg	12.21.18 01:52	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3073906 Matrix: Solid Date Prep: 12.21.18
MB Sample Id: 7668683-1-BLK LCS Sample Id: 7668683-1-BKS LCSD Sample Id: 7668683-1-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	975	98	1150	115	70-135	16	20	mg/kg	12.22.18 13:18	
Diesel Range Organics (DRO)	9.78	1000	977	98	1160	116	70-135	17	20	mg/kg	12.22.18 13:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		126		121		70-135	%	12.22.18 13:18
o-Terphenyl	94		114		126		70-135	%	12.22.18 13:18

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 609172

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3073906 Matrix: Soil Date Prep: 12.21.18
Parent Sample Id: 609031-001 MS Sample Id: 609031-001 S MSD Sample Id: 609031-001 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)	<7.99	999	947	95	963	96	70-135	2	20	mg/kg	12.22.18 14:20	
Diesel Range Organics (DRO)	43.7	999	993	95	1000	96	70-135	1	20	mg/kg	12.22.18 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		123		70-135	%	12.22.18 14:20
o-Terphenyl	103		107		70-135	%	12.22.18 14:20

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3073589 Matrix: Solid Date Prep: 12.19.18
MB Sample Id: 7668445-1-BLK LCS Sample Id: 7668445-1-BKS LCSD Sample Id: 7668445-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.0864	86	0.0806	81	70-130	7	35	mg/kg	12.20.18 00:00	
Toluene	<0.000457	0.100	0.0805	81	0.0766	77	70-130	5	35	mg/kg	12.20.18 00:00	
Ethylbenzene	<0.000566	0.100	0.0867	87	0.0830	83	70-130	4	35	mg/kg	12.20.18 00:00	
m,p-Xylenes	<0.00102	0.200	0.157	79	0.151	76	70-130	4	35	mg/kg	12.20.18 00:00	
o-Xylene	<0.000345	0.100	0.0783	78	0.0754	75	70-130	4	35	mg/kg	12.20.18 00:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		103		101		70-130	%	12.20.18 00:00
4-Bromofluorobenzene	76		84		83		70-130	%	12.20.18 00:00

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3073589 Matrix: Soil Date Prep: 12.19.18
Parent Sample Id: 609031-001 MS Sample Id: 609031-001 S MSD Sample Id: 609031-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0574	58	0.0549	55	70-130	4	35	mg/kg	12.20.18 12:15	X
Toluene	<0.000453	0.0994	0.0492	49	0.0431	43	70-130	13	35	mg/kg	12.20.18 12:15	X
Ethylbenzene	<0.000561	0.0994	0.0520	52	0.0484	48	70-130	7	35	mg/kg	12.20.18 12:15	X
m,p-Xylenes	<0.00101	0.199	0.0960	48	0.0891	45	70-130	7	35	mg/kg	12.20.18 12:15	X
o-Xylene	<0.000342	0.0994	0.0544	55	0.0538	54	70-130	1	35	mg/kg	12.20.18 12:15	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	12.20.18 12:15
4-Bromofluorobenzene	85		87		70-130	%	12.20.18 12:15

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

CHAIN OF CUSTODY

Page 1 of 1

XENCO LABORATORIES

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Xenco Quote #: | Xenco Job #: 609172

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office
Company Address: 3300 N "A" St. Building 1 Unit 103 Midland, TX 79705
Email: abaker@ltenv.com Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Anna Byers

Project Information

Project Name/Number: BEU Hackberry 34 Battery
Project Location: Eddy County 2RP5026
Invoice To: XTO Kyle Littrell
PO Number:

Analytical Information

TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 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	Field Comments
1	BH10A	0.5'	12/17	0935	S	1								X	hot TPH
2	BH10B	4.5'		1030	S	1								X	
3	BH11A	0.5'		1120	S	1								X	hot TPH
4	BH11B	2.0'		1140	S	1								X	
5															
6															
7															
8															
9															
10															

QAB 12/18/18

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 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

- [ ] 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 # 7740 1246 2162

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	Anna Byers	12/18/18 0715	David Luna	David Luna	12/18/18 9:50	Jessica R Luna
2						
3		12/18/18 15:30	Rebecca 12/19/18 1030			
4						
5				Custody Seal #	Preserved where applicable	On Ice: ✓ Cooler Temp. 1.8/1.7 Thermo. Corr. Factor R8 -0.1

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: 12/19/2018 10:30:00 AM

Work Order #: 609172

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)?	1.7
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Katie Lowe Date: 12/19/2018

Checklist reviewed by: Jessica Kramer Date: 12/19/2018

Analytical Report 609695

for

LT Environmental, Inc.

Project Manager: Adrian Baker

BEU Hackberry 34 Battery

02-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)

02-JAN-19

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

Reference: XENCO Report No(s): **609695**
BEU Hackberry 34 Battery
Project Address: Eddy County

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) 609695. 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. 609695 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Sample Cross Reference 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	12-19-18 14:30	2.5 ft	609695-001
FS02	S	12-19-18 15:20	4 ft	609695-002
SW01	S	12-19-18 14:50	1 ft	609695-003
SW02	S	12-19-18 15:50	2.5 ft	609695-004

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3074107 BTEX by EPA 8021B

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

Certificate of Analysis Summary 609695

LT Environmental, Inc., Arvada, CO

Project Name: BEU Hackberry 34 Battery

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

Date Received in Lab: Sat Dec-22-18 01:15 pm
Report Date: 02-JAN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609695-001		609695-002		609695-003		609695-004					
	Field Id:	FS01		FS02		SW01		SW02					
	Depth:	2.5- ft		4- ft		1- ft		2.5- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Dec-19-18 14:30		Dec-19-18 15:20		Dec-19-18 14:50		Dec-19-18 15:50					
BTEX by EPA 8021B	***Extracted:***	Dec-26-18 15:00		Dec-26-18 15:00		Dec-26-18 15:00		Dec-26-18 15:00					
	Analyzed:	Dec-27-18 16:03		Dec-27-18 16:22		Dec-27-18 17:02		Dec-27-18 17:21					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
m,p-Xylenes		<0.00401	0.00401	<0.00399	0.00399	<0.00400	0.00400	<0.00403	0.00403				
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Inorganic Anions by EPA 300	***Extracted:***	Dec-28-18 18:00		Dec-28-18 18:00		Dec-28-18 18:00		Dec-28-18 18:00					
	Analyzed:	Dec-29-18 05:09		Dec-29-18 05:15		Dec-29-18 05:21		Dec-29-18 05:28					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		29.2	4.95	12.5	4.98	876	4.98	11.4	4.99				
TPH by SW8015 Mod	***Extracted:***	Dec-31-18 11:00		Dec-31-18 11:00		Dec-31-18 11:00		Dec-31-18 11:00					
	Analyzed:	Dec-31-18 21:06		Dec-31-18 21:26		Dec-31-18 21:47		Dec-31-18 22:07					
	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	19.6	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	19.6	15.0	<15.0	15.0	<15.0	15.0				

Jessica Kramer
Project Assistant

Certificate of Analytical Results 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	12.22.18 13.15
Lab Sample Id:	609695-001	Date Collected:	12.19.18 14.30	Sample Depth:	2.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.28.18 18.00	Basis:	Wet Weight
Seq Number:	3074480				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.2**	4.95	mg/kg	12.29.18 05.09		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.31.18 11.00	Basis:	Wet Weight
Seq Number:	3074476				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.31.18 21.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.31.18 21.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.31.18 21.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.31.18 21.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.31.18 21.06	
o-Terphenyl	84-15-1	102	%	70-135	12.31.18 21.06	

Certificate of Analytical Results 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	12.22.18 13.15
Lab Sample Id:	609695-001	Date Collected:	12.19.18 14.30	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.26.18 15.00	Basis:	Wet Weight
Seq Number:	3074107				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.18 16.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.18 16.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.18 16.03	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.27.18 16.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.18 16.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.18 16.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.18 16.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.27.18 16.03	
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.27.18 16.03	

Certificate of Analytical Results 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	12.22.18 13.15
Lab Sample Id:	609695-002	Date Collected:	12.19.18 15.20	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.28.18 18.00	Basis:	Wet Weight
Seq Number:	3074480				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.5**	4.98	mg/kg	12.29.18 05.15		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.31.18 11.00	Basis:	Wet Weight
Seq Number:	3074476				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.31.18 21.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	**19.6**	15.0	mg/kg	12.31.18 21.26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.31.18 21.26	U	1
Total TPH	PHC635	**19.6**	15.0	mg/kg	12.31.18 21.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.31.18 21.26	
o-Terphenyl	84-15-1	105	%	70-135	12.31.18 21.26	

Certificate of Analytical Results 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	12.22.18 13.15
Lab Sample Id:	609695-002	Date Collected:	12.19.18 15.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.26.18 15.00	Basis:	Wet Weight
Seq Number:	3074107				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.18 16.22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.18 16.22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.18 16.22	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.27.18 16.22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.18 16.22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.18 16.22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.18 16.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.27.18 16.22	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.27.18 16.22	

Certificate of Analytical Results 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	12.22.18 13.15
Lab Sample Id:	609695-003	Date Collected:	12.19.18 14.50	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.28.18 18.00	Basis:	Wet Weight
Seq Number:	3074480				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**876**	4.98	mg/kg	12.29.18 05.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.31.18 11.00	Basis:	Wet Weight
Seq Number:	3074476				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.31.18 21.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.31.18 21.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.31.18 21.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.31.18 21.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	12.31.18 21.47	
o-Terphenyl	84-15-1	113	%	70-135	12.31.18 21.47	

Certificate of Analytical Results 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	12.22.18 13.15
Lab Sample Id:	609695-003	Date Collected:	12.19.18 14.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.26.18 15.00	Basis:	Wet Weight
Seq Number:	3074107				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.18 17.02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.18 17.02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.18 17.02	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.27.18 17.02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.18 17.02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.18 17.02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.18 17.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.27.18 17.02	
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.27.18 17.02	

Certificate of Analytical Results 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	12.22.18 13.15
Lab Sample Id:	609695-004	Date Collected:	12.19.18 15.50	Sample Depth:	2.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.28.18 18.00	Basis:	Wet Weight
Seq Number:	3074480				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.4**	4.99	mg/kg	12.29.18 05.28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.31.18 11.00	Basis:	Wet Weight
Seq Number:	3074476				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.31.18 22.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.31.18 22.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.31.18 22.07	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.31.18 22.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.31.18 22.07	
o-Terphenyl	84-15-1	104	%	70-135	12.31.18 22.07	

Certificate of Analytical Results 609695

LT Environmental, Inc., Arvada, CO

BEU Hackberry 34 Battery

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	12.22.18 13.15
Lab Sample Id:	609695-004	Date Collected:	12.19.18 15.50	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.26.18 15.00	Basis:	Wet Weight
Seq Number:	3074107				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.27.18 17.21	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.27.18 17.21	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.27.18 17.21	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.27.18 17.21	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.27.18 17.21	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.27.18 17.21	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.27.18 17.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.27.18 17.21	
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.27.18 17.21	

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 609695

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074480 Matrix: Solid Date Prep: 12.28.18
MB Sample Id: 7668969-1-BLK LCS Sample Id: 7668969-1-BKS LCSD Sample Id: 7668969-1-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	273	109	273	109	90-110	0	20	mg/kg	12.29.18 02:28	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074480 Matrix: Soil Date Prep: 12.28.18
Parent Sample Id: 609587-026 MS Sample Id: 609587-026 S MSD Sample Id: 609587-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.2	248	285	110	281	109	90-110	1	20	mg/kg	12.29.18 02:47	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074480 Matrix: Soil Date Prep: 12.28.18
Parent Sample Id: 609587-035 MS Sample Id: 609587-035 S MSD Sample Id: 609587-035 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	32.7	248	312	113	253	89	90-110	21	20	mg/kg	12.29.18 04:17	XF

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3074476 Matrix: Solid Date Prep: 12.31.18
MB Sample Id: 7669016-1-BLK LCS Sample Id: 7669016-1-BKS LCSD Sample Id: 7669016-1-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)	<7.99	999	861	86	884	88	70-135	3	20	mg/kg	12.31.18 13:45	
Diesel Range Organics (DRO)	<8.12	999	971	97	984	98	70-135	1	20	mg/kg	12.31.18 13:45	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		125		133		70-135	%	12.31.18 13:45
o-Terphenyl	100		112		112		70-135	%	12.31.18 13:45

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 609695

LT Environmental, Inc.

BEU Hackberry 34 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3074476 Matrix: Soil Date Prep: 12.31.18
Parent Sample Id: 609634-001 MS Sample Id: 609634-001 S MSD Sample Id: 609634-001 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)	<7.98	997	908	91	895	90	70-135	1	20	mg/kg	12.31.18 14:26	
Diesel Range Organics (DRO)	<8.10	997	1030	103	1020	102	70-135	1	20	mg/kg	12.31.18 14:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	132		129		70-135	%	12.31.18 14:26
o-Terphenyl	121		118		70-135	%	12.31.18 14:26

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3074107 Matrix: Solid Date Prep: 12.26.18
MB Sample Id: 7668790-1-BLK LCS Sample Id: 7668790-1-BKS LCSD Sample Id: 7668790-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.113	113	0.104	104	70-130	8	35	mg/kg	12.27.18 09:27	
Toluene	<0.000456	0.100	0.0947	95	0.0905	91	70-130	5	35	mg/kg	12.27.18 09:27	
Ethylbenzene	<0.000565	0.100	0.0991	99	0.0952	95	70-130	4	35	mg/kg	12.27.18 09:27	
m,p-Xylenes	<0.00101	0.200	0.179	90	0.173	87	70-130	3	35	mg/kg	12.27.18 09:27	
o-Xylene	<0.000344	0.100	0.0885	89	0.0865	87	70-130	2	35	mg/kg	12.27.18 09:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		107		106		70-130	%	12.27.18 09:27
4-Bromofluorobenzene	79		85		88		70-130	%	12.27.18 09:27

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3074107 Matrix: Soil Date Prep: 12.26.18
Parent Sample Id: 609206-043 MS Sample Id: 609206-043 S MSD Sample Id: 609206-043 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	0.0903	90	0.0986	98	70-130	9	35	mg/kg	12.27.18 10:05	
Toluene	<0.000457	0.100	0.0800	80	0.0854	85	70-130	7	35	mg/kg	12.27.18 10:05	
Ethylbenzene	<0.000566	0.100	0.0847	85	0.0902	89	70-130	6	35	mg/kg	12.27.18 10:05	
m,p-Xylenes	<0.00102	0.200	0.154	77	0.164	81	70-130	6	35	mg/kg	12.27.18 10:05	
o-Xylene	<0.000345	0.100	0.0765	77	0.0802	79	70-130	5	35	mg/kg	12.27.18 10:05	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		107		70-130	%	12.27.18 10:05
4-Bromofluorobenzene	88		88		70-130	%	12.27.18 10:05

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

CHAIN OF CUSTODY

Page 1 of 1

XENCO LABORATORIES

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

Xenco Quote #: | Xenco Job #: 609095

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office
Company Address: 3300 N "A" St. Building 1 Unit 103 Midland, TX 79705
Email: abaker@ltenv.com Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Anna Byers

Project Information

Project Name/Number: BELL Hackberry 34 Battery
Project Location: Eddy County
Invoice To: XTO : Kyle Littrell
PO Number:

Analytical Information

Matrix Codes

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

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX (only BTEX) 8021	TPH (DRO, GRO AND) 8015	Chloride (300.00)	Field Comments
1	FS01	2.5'	12/19	14:30	S	1								X	X	X	X	composite sample
2	FS02	4'	↓	15:20	S	1								X	X	X	X	composite sample
3	SW01	1'		14:50	S	1								X	X	X	X	composite sample *
4	SW02	2.5'	↓	15:50	S	1								X	X	X	X	composite sample *
5																		
6																		* average depth
7																		
8																		
9																		
10																		

AB 12/19/18

Turnaround Time (Business days)

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

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

Data Deliverable Information

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

Notes:

FED-EX / UPS: Tracking #

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	Anna Byers	12/19/18 1820				
2					12/19/18 1900	
3		12/20/18 15:50				
4						
5			12/22 1316	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr. Factor: 0.2/0.2

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: 12/22/2018 01:15:00 PM

Work Order #: 609695

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: 12/26/2018

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 12/26/2018

Jessica Kramer

View west of bermed process equipment area

Project: 012918169	XTO Energy, Inc. BEU Hackberry 34 Federal Battery #1	LTE Advancing Opportunity
December 13, 2018	Photographic Log	

View south of excavation around surface lines within both release areas (2RP-4399 and 2RP-5026)

Project: 012918169	XTO Energy, Inc. BEU Hackberry 34 Federal Battery #1	LTE Advancing Opportunity
December 17, 2018	Photographic Log	

View northeast of excavation within both release areas (2RP-4399 and 2RP-5026)

Project: 012918169	XTO Energy, Inc. BEU Hackberry 34 Federal Battery #1	LTE Advancing Opportunity
December 21, 2018	Photographic Log	