



LT Environmental, Inc.

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

August 6, 2018

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210**RE: Closure Request
Big Eddy Unit #039
Remediation Permit Number 2RP-3957
Eddy County, New Mexico**

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), is pleased to present the following letter report detailing the soil sampling activities at the Big Eddy Unit (BEU) #039 (Site) in Section 29, Township 21 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the excavation activities was to assess soil impacts after a historical release from the wellhead. Fluids were released from the wellhead due to the tubing valve being closed. The wellhead stuffing box was repaired. The release of approximately 32 barrels (bbls) of produced water was discovered on October 4, 2016. The release affected approximately 845 square feet of the caliche pad surrounding the wellhead. Emergency response activities included removing approximately 30 bbls of produced water, which were recovered with a vacuum truck.

The former operator reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on October 21, 2016, and was assigned Remediation Permit Number (RP) 2RP-3957 (Attachment 1). Although the release occurred while the facility was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved. The sampling was conducted to assess the current site conditions. Based on the results of the confirmation sampling event conducted after impacted soil was removed, XTO is requesting site closure status and no further action for this release event.

BACKGROUND

Depth to groundwater at the Site is estimated to be between 50 feet and 100 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well with depth to groundwater data is CP 00569, located approximately 1.45 miles east of the Site, with a depth to groundwater of 50 feet bgs and a total depth of 71 feet bgs. The closest surface water to the Site is an unnamed lake located approximately 0.46 mile west of the Site. The Site is greater than greater than 1,000 feet from a water source and greater than 1,000 feet from a private domestic water source. Based on these criteria, the NMOCD site





Bratcher, M.
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ranking for remediation action levels is 10, and the following remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 1,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region, LTE proposes a site-specific chloride action level of 600 mg/kg or within 10 percent (%) of the background concentrations.

SOIL SAMPLING

On February 28, 2018, an LTE scientist collected five soil samples (SS1 through SS5) from a depth of 1.0-foot bgs to determine the lateral extent of soil impact. All samples were screened for volatile aromatic hydrocarbons using a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp in accordance with the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, August 13, 1993. No visual or olfactory evidence of the release was observed. The soil samples were placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler, method of analysis, and immediately placed on ice. The samples were delivered at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Xenco Laboratories (Xenco) in Midland, Texas, for laboratory analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021B, total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) by EPA Method SW8015 Modified, and chloride by EPA Method 300.

Laboratory analytical results indicated three soil samples (SS1, SS2, and SS3) exceeded the site-specific remediation action level for chloride. Analytical results are depicted on Figure 2 and summarized in Table 1, and the laboratory analytical reports are attached.

EXCAVATION ACTIVITIES

Based on results of the initial sampling, XTO excavated in the areas around surface samples SS1, SS2, and SS3 on April 30, 2018, to an approximate depth of 3 feet to 4 feet bgs (Figure 3). An LTE scientist field-screened soil using a PID and chloride test strips to direct the excavations and delineate impacted soil laterally and vertically in the excavation. LTE collected soil samples (FS1 through FS3 and WS1 through WS12) from the excavation. The soil samples were collected and handled as previously described and submitted to Xenco in Midland, Texas, for laboratory analysis of BTEX, TPH, and chloride.

Based on results of excavation samples collected on April 30, 2018, XTO excavated additional soil from the three excavation areas between May 25 and June 4, 2018. The final excavations were combined to a total of approximately 3,150 square feet in area and ranged in depth from approximately 3.5 feet in the western excavation to 7 feet bgs in the northern and eastern excavations. Approximately 500 cubic yards of impacted soil were removed by heavy equipment or hand digging from the three excavations. All impacted soil was transported and properly disposed of at R360Environmental Solutions, LLC, Halfway Landfarm in Hobbs, New Mexico.





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Although soil samples were collected for laboratory analysis to monitor excavation progress, LTE ultimately presented 15 final sidewall soil samples (WS4, SW5A @ 3.5', SW8A, SW6A, SW13, SW14, SW11A @ 4', SW10A @ 4', SW3A @ 6', SW9A, SW15, SW16, SW2A, SW17, and SW1A) and four floor soil samples (FS4, FS1A @ 7', FS2A @ 7', and FS5) for confirmation that impacted soil was removed from the excavations. The soil samples were collected from locations identified to represent the exposed sidewalls and floor. As such, depth of the samples varied along the sidewalls depending on field observations. Samples were collected and handled as previously described and submitted to Xenco in Midland, Texas, for analysis of BTEX, TPH, and chloride. The excavation footprint and confirmation soil samples are indicated on Figure 2 and laboratory analytical results are provided on Table 1.

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, total BTEX, and TPH concentrations were compliant with the NMOCD remediation action levels in all 38 samples collected.

As detailed in Table 1, laboratory analytical results indicated initial soil samples SS01, SS02, and SS03 exceeded the site-specific remediation action levels for chloride. The excavations were extended laterally and vertically in those areas until subsequent laboratory analytical results indicated concentrations were compliant with the site-specific remediation action levels. Chloride concentrations ranged from 125 mg/kg in soil sample SW13 to 529 mg/kg in soil sample FS2A @ 7'. Laboratory analytical results are presented on Figure 2 and in Table 1, and the complete laboratory analytical report is included as Attachment 2.

CONCLUSIONS

Laboratory analytical results for the 19 final confirmation soil samples collected from the sidewalls and the bottom of the excavations indicate that concentrations of BTEX, TPH, and chloride are compliant with NMOCD site-specific remediation action levels. XTO has successfully removed 500 cubic yards of impacted soil at the Site and XTO requests no further action for this release. Upon approval of this request, XTO will backfill the excavation with caliche well pad material and recontour the Site. An updated NMOCD Form C-141 is included with Attachment 1.





Bratcher, M.
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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.

A handwritten signature in blue ink that reads "Adrian Baker".

Adrian Baker
Project Geologist

A handwritten signature in blue ink that reads "Ashley L. Ager".

Ashley L. Ager, P.G.
Senior Geologist

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

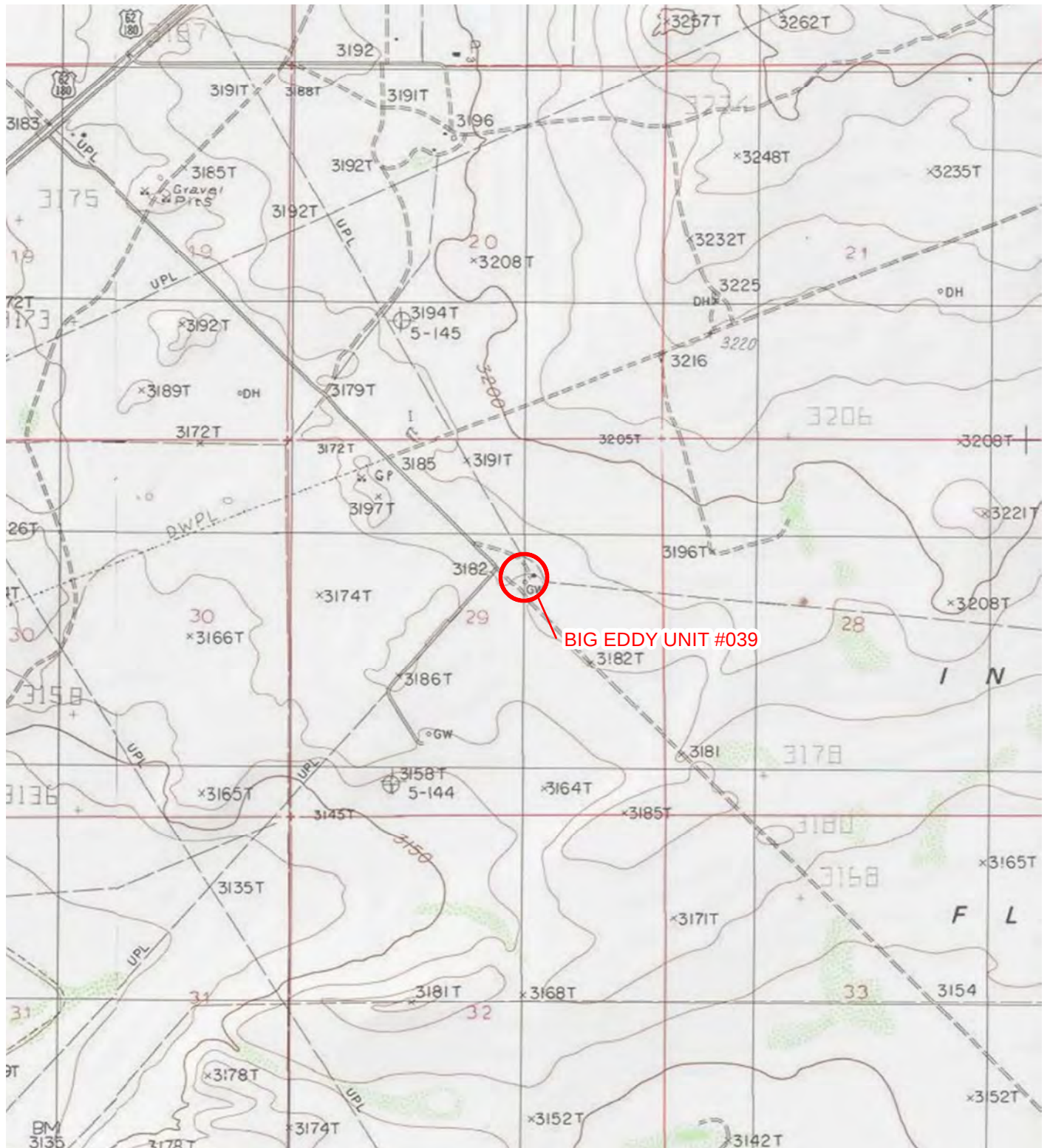
Attachments:

Figure 1 Site Location Map
Figure 2 Soil Sample Locations
Figure 3 Excavation Locations
Table 1 Soil Analytical Results
Attachment 1 Initial/Final NMOCD Form C-141
Attachment 2 Laboratory Analytical Reports



FIGURES



**LEGEND**

 SITE LOCATION

IMAGE COURTESY OF ESRI/USGS

0 2,000 4,000
Feet



NOTE: REMEDIATION PERMIT
NUMBER 2RP-3957

FIGURE 1
SITE LOCATION MAP
BIG EDDY UNIT #039
SWNE SEC 29 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



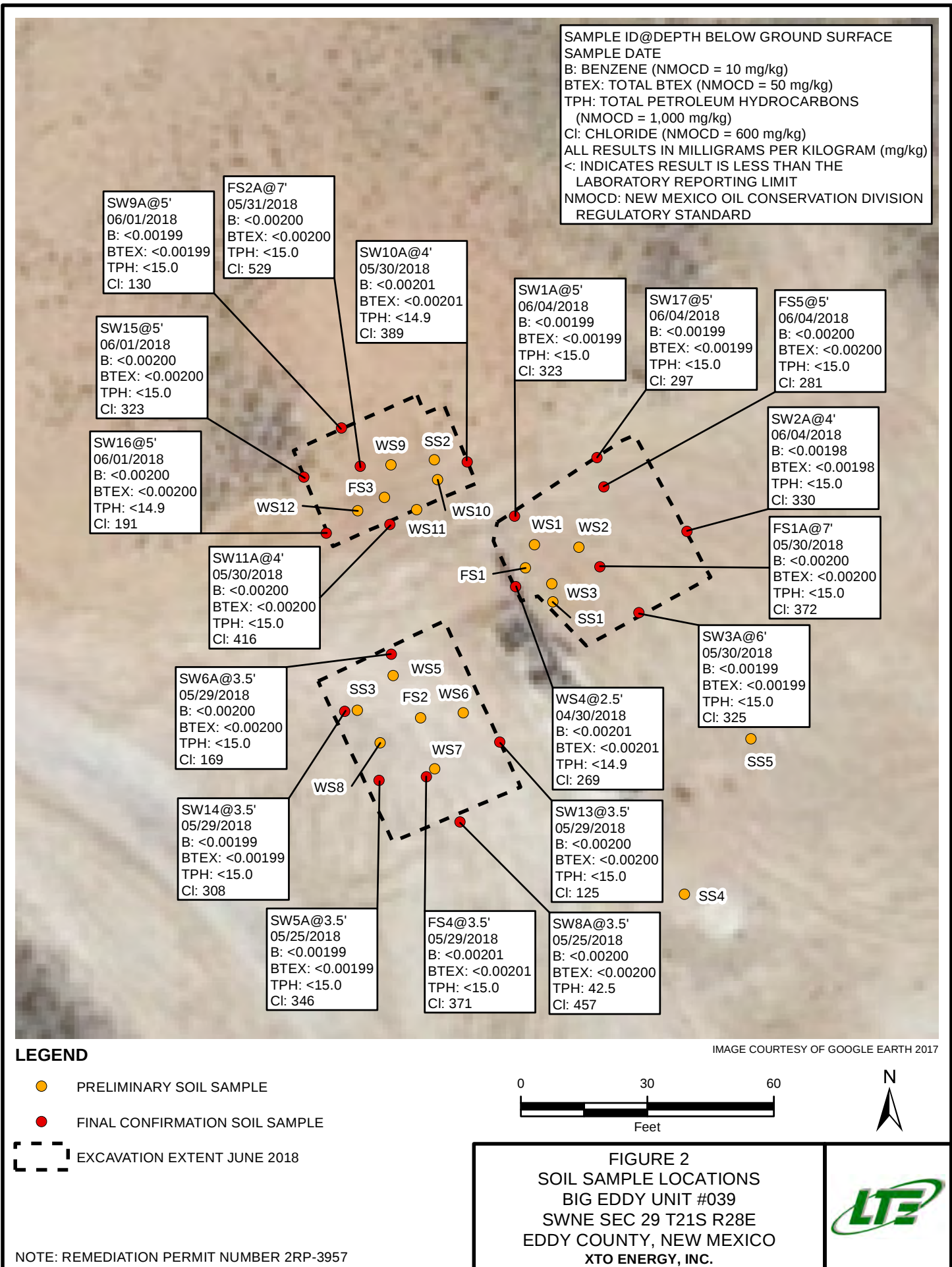
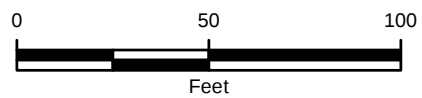




IMAGE COURTESY OF GOOGLE EARTH 2017

LEGEND

 EXCAVATION EXTENT JUNE 2018



NOTE: REMEDIATION PERMIT NUMBER 2RP-3957

FIGURE 3
SITE MAP
BIG EDDY UNIT #039
SWNE SEC 29 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLE



TABLE 1
SOIL ANALYTICAL RESULTS
BIG EDDY UNIT #039
REMEDIATION PERMIT NUMBER 2RP-3957
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
Initial Sampling												
SS1	1	02/28/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	897	40.8	938	5,100
SS2	1	02/28/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	4,080
SS3	1	02/28/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	5,010
SS4	1	02/28/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	32.0	<15.0	32.0	497
SS5	1	02/28/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	86.3
Initial Excavation												
FS1	3	04/30/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	705
WS1	2.5	04/30/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	747
WS2	2.5	04/30/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	1,190
WS3	2.5	04/30/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	1,100
WS4	2.5	04/30/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	269
FS2	3	04/30/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	454
WS5	2.5	04/30/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	871
WS6	2.5	04/30/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	723
WS7	2.5	04/30/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	859
WS8	2.5	04/30/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	951
FS3	4	04/30/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	758
WS9	3	04/30/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	2,310
WS10	3	04/30/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<14.9	<14.9	<14.9	<14.9	679
WS11	3	04/30/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	684
WS12	3	04/30/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	639
Final Excavation												
SW5A @ 3.5'	3.5	05/25/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	346
SW8A	3.5	05/25/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	24.8	17.7	42.5	457
SW6A	3.5	05/29/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	169
SW13	3.5	05/29/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	125
FS4	3.5	05/29/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	371
SW14	3.5	05/29/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	308
SW11A @ 4'	4	05/30/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	416
SW10A @ 4'	4	05/30/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	389
FS1A @ 7'	7	05/30/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	372
SW3A @ 6'	6	05/30/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	325
FS2A @ 7'	7	05/31/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	529
SW9A	5	06/01/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	130
SW15	5	06/01/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	323
SW16	5	06/01/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	191
SW2A	4	06/04/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	330
SW17	5	06/04/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	297
SW1A	5	06/04/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	323
FS5	5	06/04/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	281
NMOCD Remediation Action Levels			10	NE	NE	NE	50	NE	NE	NE	1,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons

< - indicates result is less than the stated laboratory method detection limit

Bold indicates result exceeds the applicable regulatory standard.

ATTACHMENT 1: INITIAL/FINAL NMOCD FORM C-141



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

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

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 21 2016

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. **Contact:** Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 **Telephone No.:** 575-887-7329
Facility Name: Big Eddy Unit #039 **Facility Type:** Exploration and Production

Surface Owner: Federal **Mineral Owner:** Federal **API No.:** 30-015-20945

LOCATION OF RELEASE

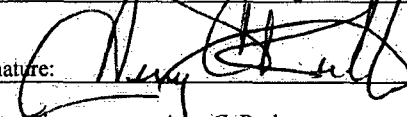
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	29	21S	28E	1980	North	1980	East	Eddy

Latitude 32.453064° **Longitude** -104.106857°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	32 bbls	Volume Recovered	30 bbls
Source of Release	Well head	Date and Hour of Occurrence	10/4/2016 time unknown	Date and Hour of Discovery	10/4/2016 approx. 7 am
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Mike Bratcher and Heather Patterson		
By Whom?	Amy Ruth	Date and Hour	10/5/2016 12:59 pm		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	N/A		
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* Fluids released from wellhead due to tubing valve having been closed. Leaked wellhead stuffing box was repaired.					
Describe Area Affected and Cleanup Action Taken.* The leak affected approximately 845 square feet of caliche pad surrounding wellhead. Free standing fluids were recovered via vacuum truck.					

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Amy C. Ruth		Approved by Environmental Specialist: 	
Title: EHS Remediation Specialist		Approval Date: 10/24/16	Expiration Date: N/A
E-mail Address: ACRuth@basspet.com		Conditions of Approval: Remediation per O.C.D. Rules & Guidelines ☐	
Date: 10/21/2016 Phone: 432-661-0571		SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 11/21/16

2RP-3957

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company XTO Energy	Contact: Kyle Littrell
Address 3104 E Greene Street, Carlsbad, NM 88220	Telephone No: 432-221-7331
Facility Name: Big Eddy Unit #039	Facility Type: Exploration and Production

Surface Owner Federal	Mineral Owner: Federal	API No. 30-015-20945
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LOCATION OF RELEASE

Unit Letter G	Section 29	Township 21S	Range 28E	Feet from the 1980	North/South Line North	Feet from the 1980	East/West Line East	County Eddy
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Latitude 32.453064° Longitude -104.106857° NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 32 bbls	Volume Recovered 30 bbls
Source of Release: Well head	Date and Hour of Occurrence 10/4/2016 time unknown	Date and Hour of Discovery 10/4/2016 approx. 7am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher and Heather Patterson	
By Whom? Amy Ruth	Date and Hour: 10/5/2016 12:59 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse: N/A	

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

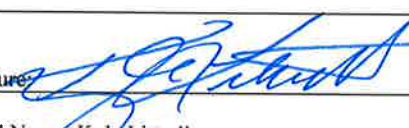
Describe Cause of Problem and Remedial Action Taken.*

Fluids released from wellhead due to tubing valve having been closed. Leaked wellhead stuffing box was repaired.

Describe Area Affected and Cleanup Action Taken.* The leak affected approximately 845 square feet of caliche pad surrounding wellhead. Free standing fluids were recovered via vacuum truck.

Between February 28, 2018 and June 4, 2018, XTO collected soil samples and conducted excavation activities at the Site. Approximately 500 cubic yards of impacted soil were removed by heavy equipment or hand digging from the three excavations. Although soil samples were collected for laboratory analysis to monitor excavation progress, LTE ultimately presents 19 confirmation soil samples. Laboratory analytical results for the 19 soil samples indicated BTEX, TPH, and chloride concentrations did not exceed the NMOCD remediation action levels for the Site, based on the confirmation sampling results and the volume of soil removed, XTO requests no further action for this release. Once this request is granted, XTO will back fill and recontour the well pad.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Kyle Littrell	Approved by Environmental Specialist: 	
Title: SH&E Coordinator	Approval Date: 3/16/2023	Expiration Date: N/A
E-mail Address: Kyle.Littrell@xtoenergy.com	Conditions of Approval:	Attached ☐
Date: 8/01/2018 Phone: 432-221-7331	N/A	

* Attach Additional Sheets If Necessary

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS



Analytical Report 577918

for
LT Environmental, Inc.

Project Manager: Adrian Baker

BEU-39 / 2RP-3957

09-MAR-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)



09-MAR-18

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

Reference: XENCO Report No(s): **577918**
BEU-39 / 2RP-3957
Project Address: NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 577918. 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. 577918 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,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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

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

**Sample Cross Reference 577918****LT Environmental, Inc., Arvada, CO**

BEU-39 / 2RP-3957

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS1	S	02-28-18 12:17	12 In	577918-001
SS2	S	02-28-18 12:25	12 In	577918-002
SS3	S	02-28-18 12:35	12 In	577918-003
SS4	S	02-28-18 12:45	12 In	577918-004
SS5	S	02-28-18 12:55	12 In	577918-005



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: BEU-39 / 2RP-3957

Project ID:

Work Order Number(s): 577918

Report Date: 09-MAR-18

Date Received: 03/01/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3042980 BTEX by EPA 8021B

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

Lab Sample ID 577918-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 577918-001, -002, -003, -004, -005.

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



Certificate of Analysis Summary 577918

LT Environmental, Inc., Arvada, CO

Project Name: BEU-39 / 2RP-3957



Project Id:

Contact: Adrian Baker

Project Location: NM

Date Received in Lab: Thu Mar-01-18 01:10 pm

Report Date: 09-MAR-18

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	577918-001	577918-002	577918-003	577918-004	577918-005	
	<i>Field Id:</i>	SS1	SS2	SS3	SS4	SS5	
	<i>Depth:</i>	12- In	12- In	12- In	12- In	12- In	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Feb-28-18 12:17	Feb-28-18 12:25	Feb-28-18 12:35	Feb-28-18 12:45	Feb-28-18 12:55	
BTEX by EPA 8021B	<i>Extracted:</i>	Mar-06-18 08:30	Mar-06-18 08:30	Mar-06-18 08:30	Mar-06-18 08:30	Mar-06-18 08:30	
	<i>Analyzed:</i>	Mar-07-18 14:37	Mar-07-18 14:37	Mar-07-18 14:37	Mar-07-18 14:37	Mar-07-18 14:37	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399	<0.00403 0.00403	<0.00398 0.00398	
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	
Inorganic Anions by EPA 300	<i>Extracted:</i>	Mar-07-18 18:30	Mar-07-18 18:30	Mar-07-18 18:30	Mar-07-18 18:30	Mar-07-18 18:30	
	<i>Analyzed:</i>	Mar-08-18 17:40	Mar-08-18 17:56	Mar-08-18 18:06	Mar-08-18 18:29	Mar-08-18 18:01	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		5100 49.5	4080 99.8	5010 49.8	497 24.8	86.3 24.9	
TPH by SW8015 Mod	<i>Extracted:</i>	Mar-07-18 10:00	Mar-07-18 10:00	Mar-07-18 10:00	Mar-07-18 10:00	Mar-07-18 10:00	
	<i>Analyzed:</i>	Mar-07-18 19:04	Mar-07-18 19:30	Mar-07-18 19:57	Mar-07-18 20:22	Mar-07-18 21:41	
	<i>Units/RL:</i>	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)		897 15.0	<15.0 15.0	<15.0 15.0	32.0 15.0	<14.9 14.9	
Oil Range Hydrocarbons (ORO)		40.8 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	
Total TPH		938 15.0	<15.0 15.0	<15.0 15.0	32.0 15.0	<14.9 14.9	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analytical Results 577918

LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS1
Lab Sample Id: 577918-001

Matrix: Soil
Date Collected: 02.28.18 12.17

Date Received: 03.01.18 13.10
Sample Depth: 12 In

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3043154

Date Prep: 03.07.18 18.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5100	49.5	mg/kg	03.08.18 17.40		10

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3043121

Date Prep: 03.07.18 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.07.18 19.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	897	15.0	mg/kg	03.07.18 19.04		1
Oil Range Hydrocarbons (ORO)	PHCG2835	40.8	15.0	mg/kg	03.07.18 19.04		1
Total TPH	PHC635	938	15.0	mg/kg	03.07.18 19.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.07.18 19.04	
o-Terphenyl	84-15-1	102	%	70-135	03.07.18 19.04	



Certificate of Analytical Results 577918

LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS1
Lab Sample Id: 577918-001

Matrix: Soil
Date Collected: 02.28.18 12.17

Date Received: 03.01.18 13.10
Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3042980

Date Prep: 03.06.18 08.30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.07.18 14.37	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.18 14.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	03.07.18 14.37		
1,4-Difluorobenzene	540-36-3	76	%	70-130	03.07.18 14.37		



Certificate of Analytical Results 577918

LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS2 Matrix: Soil Date Received: 03.01.18 13.10
 Lab Sample Id: 577918-002 Date Collected: 02.28.18 12.25 Sample Depth: 12 In
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: OJS % Moisture:
 Analyst: OJS Date Prep: 03.07.18 18.30 Basis: Wet Weight
 Seq Number: 3043154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4080	99.8	mg/kg	03.08.18 17.56		20

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 03.07.18 10.00 Basis: Wet Weight
 Seq Number: 3043121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.07.18 19.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.07.18 19.30	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	03.07.18 19.30	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.07.18 19.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.07.18 19.30	
o-Terphenyl	84-15-1	102	%	70-135	03.07.18 19.30	



Certificate of Analytical Results 577918



LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS2
Lab Sample Id: 577918-002

Matrix: Soil
Date Collected: 02.28.18 12.25

Date Received: 03.01.18 13.10
Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.06.18 08.30

Basis: Wet Weight

Seq Number: 3042980

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	03.07.18 14.37		
1,4-Difluorobenzene	540-36-3	74	%	70-130	03.07.18 14.37		



Certificate of Analytical Results 577918



LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS3 Matrix: Soil Date Received: 03.01.18 13.10
 Lab Sample Id: 577918-003 Date Collected: 02.28.18 12.35 Sample Depth: 12 In
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: OJS % Moisture:
 Analyst: OJS Date Prep: 03.07.18 18.30 Basis: Wet Weight
 Seq Number: 3043154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5010	49.8	mg/kg	03.08.18 18.06		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 03.07.18 10.00 Basis: Wet Weight
 Seq Number: 3043121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.07.18 19.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.07.18 19.57	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	03.07.18 19.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.07.18 19.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	03.07.18 19.57	
o-Terphenyl	84-15-1	103	%	70-135	03.07.18 19.57	



Certificate of Analytical Results 577918



LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS3
Lab Sample Id: 577918-003

Matrix: Soil
Date Collected: 02.28.18 12.35

Date Received: 03.01.18 13.10
Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.06.18 08.30

Basis: Wet Weight

Seq Number: 3042980

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.07.18 14.37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.07.18 14.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	03.07.18 14.37		
1,4-Difluorobenzene	540-36-3	72	%	70-130	03.07.18 14.37		



Certificate of Analytical Results 577918



LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS4
Lab Sample Id: 577918-004

Matrix: Soil
Date Collected: 02.28.18 12.45

Date Received: 03.01.18 13.10
Sample Depth: 12 In

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3043154

Date Prep: 03.07.18 18.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	497	24.8	mg/kg	03.08.18 18.29		5

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3043121

Date Prep: 03.07.18 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.07.18 20.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	32.0	15.0	mg/kg	03.07.18 20.22		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	03.07.18 20.22	U	1
Total TPH	PHC635	32.0	15.0	mg/kg	03.07.18 20.22		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	03.07.18 20.22	
o-Terphenyl	84-15-1	98	%	70-135	03.07.18 20.22	



Certificate of Analytical Results 577918

LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS4
Lab Sample Id: 577918-004

Matrix: Soil
Date Collected: 02.28.18 12.45

Date Received: 03.01.18 13.10
Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.06.18 08.30

Basis: Wet Weight

Seq Number: 3042980

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.07.18 14.37	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.07.18 14.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	03.07.18 14.37		
1,4-Difluorobenzene	540-36-3	79	%	70-130	03.07.18 14.37		



Certificate of Analytical Results 577918

LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS5 Matrix: Soil Date Received: 03.01.18 13.10
 Lab Sample Id: 577918-005 Date Collected: 02.28.18 12.55 Sample Depth: 12 In
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: OJS % Moisture:
 Analyst: OJS Date Prep: 03.07.18 18.30 Basis: Wet Weight
 Seq Number: 3043154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	86.3	24.9	mg/kg	03.08.18 18.01		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 03.07.18 10.00 Basis: Wet Weight
 Seq Number: 3043121

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.07.18 21.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	03.07.18 21.41	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	03.07.18 21.41	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	03.07.18 21.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	03.07.18 21.41	
o-Terphenyl	84-15-1	92	%	70-135	03.07.18 21.41	



Certificate of Analytical Results 577918



LT Environmental, Inc., Arvada, CO

BEU-39 / 2RP-3957

Sample Id: SS5
Lab Sample Id: 577918-005

Matrix: Soil
Date Collected: 02.28.18 12.55

Date Received: 03.01.18 13.10
Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.06.18 08.30

Basis: Wet Weight

Seq Number: 3042980

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.07.18 14.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	72	%	70-130	03.07.18 14.37		
4-Bromofluorobenzene	460-00-4	114	%	70-130	03.07.18 14.37		



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



LT Environmental, Inc.

BEU-39 / 2RP-3957

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3043154

MB Sample Id: 7640435-1-BLK

Matrix: Solid

LCS Sample Id: 7640435-1-BKS

Prep Method: E300P

Date Prep: 03.07.18

LCSD Sample Id: 7640435-1-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	247	99	242	97	90-110	2	20	mg/kg	03.08.18 12:07	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3043154

Parent Sample Id: 577917-001

Matrix: Soil

MS Sample Id: 577917-001 S

Prep Method: E300P

Date Prep: 03.07.18

MSD Sample Id: 577917-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.6	250	285	109	286	109	90-110	0	20	mg/kg	03.08.18 12:23	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3043154

Parent Sample Id: 577917-003

Matrix: Soil

MS Sample Id: 577917-003 S

Prep Method: E300P

Date Prep: 03.07.18

MSD Sample Id: 577917-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1230	250	1420	76	1430	80	90-110	1	20	mg/kg	03.08.18 13:38	X

Analytical Method: TPH by SW8015 Mod

Seq Number: 3043121

MB Sample Id: 7640357-1-BLK

Matrix: Solid

LCS Sample Id: 7640357-1-BKS

Prep Method: TX1005P

Date Prep: 03.07.18

LCSD Sample Id: 7640357-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1040	104	1010	101	70-135	3	35	mg/kg	03.07.18 14:33	
Diesel Range Organics (DRO)	<15.0	1000	1090	109	1030	103	70-135	6	35	mg/kg	03.07.18 14:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		115		114		70-135	%	03.07.18 14:33
o-Terphenyl	107		113		109		70-135	%	03.07.18 14:33

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

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

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

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



LT Environmental, Inc.

BEU-39 / 2RP-3957

Analytical Method: TPH by SW8015 Mod

Seq Number: 3043121

Parent Sample Id: 577916-005

Matrix: Soil

MS Sample Id: 577916-005 S

Prep Method: TX1005P

Date Prep: 03.07.18

MSD Sample Id: 577916-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	1050	105	1050	105	70-135	0	35	mg/kg	03.07.18 15:52	
Diesel Range Organics (DRO)	103	999	1160	106	1170	107	70-135	1	35	mg/kg	03.07.18 15:52	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		120		70-135	%	03.07.18 15:52
o-Terphenyl	112		113		70-135	%	03.07.18 15:52

Analytical Method: BTEX by EPA 8021B

Seq Number: 3042980

MB Sample Id: 7640283-1-BLK

Matrix: Solid

LCS Sample Id: 7640283-1-BKS

Prep Method: SW5030B

Date Prep: 03.06.18

LCSD Sample Id: 7640283-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.100	100	0.100	100	70-130	0	35	mg/kg	03.07.18 14:37	
Toluene	<0.00200	0.0998	0.0933	93	0.0938	94	70-130	1	35	mg/kg	03.07.18 14:37	
Ethylbenzene	<0.00200	0.0998	0.0970	97	0.0975	98	70-130	1	35	mg/kg	03.07.18 14:37	
m,p-Xylenes	<0.00399	0.200	0.190	95	0.191	96	70-130	1	35	mg/kg	03.07.18 14:37	
o-Xylene	<0.00200	0.0998	0.0957	96	0.0964	96	70-130	1	35	mg/kg	03.07.18 14:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	83		71		72		70-130	%	03.07.18 14:37
4-Bromofluorobenzene	109		125		125		70-130	%	03.07.18 14:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3042980

Parent Sample Id: 577918-001

Matrix: Soil

MS Sample Id: 577918-001 S

Prep Method: SW5030B

Date Prep: 03.06.18

MSD Sample Id: 577918-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0592	59	0.0551	55	70-130	7	35	mg/kg	03.07.18 14:37	X
Toluene	<0.00202	0.101	0.0540	53	0.0428	43	70-130	23	35	mg/kg	03.07.18 14:37	X
Ethylbenzene	<0.00202	0.101	0.0499	49	0.0410	41	70-130	20	35	mg/kg	03.07.18 14:37	X
m,p-Xylenes	<0.00403	0.202	0.0960	48	0.0685	34	70-130	33	35	mg/kg	03.07.18 14:37	X
o-Xylene	<0.00202	0.101	0.0491	49	0.0425	43	70-130	14	35	mg/kg	03.07.18 14:37	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	71		91		70-130	%	03.07.18 14:37
4-Bromofluorobenzene	91		121		70-130	%	03.07.18 14:37

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

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

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

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



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03/01/2018 01:10:00 PM

Work Order #: 577918

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?	No	TPH received in bulk jars
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Connie Hernandez

Date: 03/01/2018

Checklist reviewed by:

Jessica Kramer

Date: 03/01/2018

Analytical Report 584936

for
LT Environmental, Inc.

Project Manager: Adrian Baker

BEU 39

2RP-3957

18-JUN-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



18-JUN-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **584936**

BEU 39

Project Address: New Mexico

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) 584936. 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. 584936 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,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS 1	S	04-30-18 14:20	3 ft	584936-001
WS1	S	04-30-18 14:28	2.5 ft	584936-002
WS2	S	04-30-18 14:32	2.5 ft	584936-003
WS3	S	04-30-18 14:38	2.5 ft	584936-004
WS4	S	04-30-18 14:47	2.5 ft	584936-005
FS2	S	04-30-18 14:42	3 ft	584936-006
WS5	S	04-30-18 14:51	2.5 ft	584936-007
WS6	S	04-30-18 14:55	2.5 ft	584936-008
WS7	S	04-30-18 15:03	2.5 ft	584936-009
WS8	S	04-30-18 15:07	2.5 ft	584936-010
FS3	S	04-30-18 15:11	4 ft	584936-011
WS9	S	04-30-18 15:15	3 ft	584936-012
WS10	S	04-30-18 15:20	3 ft	584936-013
WS11	S	04-30-18 15:25	3 ft	584936-014
WS12	S	04-30-18 15:30	3 ft	584936-015



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: BEU 39

Project ID: 2RP-3957
Work Order Number(s): 584936

Report Date: 18-JUN-18
Date Received: 05/04/2018

Sample receipt non conformances and comments:

Per client email request change sample 012 name from WSP to WS9 JKR 06/18/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3049433 BTEX by EPA 8021B

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

Batch: LBA-3049669 BTEX by EPA 8021B

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



Certificate of Analysis Summary 584936

LT Environmental, Inc., Arvada, CO

Project Name: BEU 39



Project Id: 2RP-3957
Contact: Adrian Baker
Project Location: New Mexico

Date Received in Lab: Fri May-04-18 10:10 am
Report Date: 18-JUN-18
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	584936-001	584936-002	584936-003	584936-004	584936-005	584936-006
	<i>Field Id:</i>	FS 1	WS1	WS2	WS3	WS4	FS2
	<i>Depth:</i>	3- ft	2.5- ft	2.5- ft	2.5- ft	2.5- ft	3- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Apr-30-18 14:20	Apr-30-18 14:28	Apr-30-18 14:32	Apr-30-18 14:38	Apr-30-18 14:47	Apr-30-18 14:42
BTEX by EPA 8021B	<i>Extracted:</i>	May-08-18 17:00	May-08-18 17:00	May-08-18 17:00	May-08-18 17:00	May-08-18 17:00	May-09-18 08:00
	<i>Analyzed:</i>	May-09-18 03:55	May-09-18 04:17	May-09-18 04:38	May-09-18 05:00	May-09-18 05:43	May-09-18 14:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00403 0.00403	<0.00401 0.00401	<0.00402 0.00402	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Inorganic Anions by EPA 300	<i>Extracted:</i>	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00
	<i>Analyzed:</i>	May-10-18 18:39	May-10-18 18:45	May-10-18 18:51	May-10-18 19:09	May-10-18 19:14	May-10-18 19:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		705 5.00	747 4.99	1190 24.8	1100 5.00	269 4.99	454 5.00
TPH by SW8015 Mod	<i>Extracted:</i>	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00
	<i>Analyzed:</i>	May-06-18 02:54	May-06-18 04:15	May-06-18 04:44	May-06-18 05:11	May-06-18 05:38	May-06-18 06:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<14.9 14.9

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 584936

LT Environmental, Inc., Arvada, CO

Project Name: BEU 39



Project Id: 2RP-3957
Contact: Adrian Baker
Project Location: New Mexico

Date Received in Lab: Fri May-04-18 10:10 am
Report Date: 18-JUN-18
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	584936-007	584936-008	584936-009	584936-010	584936-011	584936-012
	<i>Field Id:</i>	WS5	WS6	WS7	WS8	FS3	WS9
	<i>Depth:</i>	2.5- ft	2.5- ft	2.5- ft	2.5- ft	4- ft	3- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Apr-30-18 14:51	Apr-30-18 14:55	Apr-30-18 15:03	Apr-30-18 15:07	Apr-30-18 15:11	Apr-30-18 15:15
BTEX by EPA 8021B	<i>Extracted:</i>	May-09-18 08:00	May-09-18 08:00	May-09-18 08:00	May-09-18 08:00	May-09-18 08:00	May-09-18 08:00
	<i>Analyzed:</i>	May-09-18 15:16	May-09-18 15:38	May-09-18 15:59	May-09-18 16:21	May-09-18 16:46	May-09-18 17:08
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Toluene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
m,p-Xylenes		<0.00404 0.00404	<0.00398 0.00398	<0.00399 0.00399	<0.00401 0.00401	<0.00402 0.00402	<0.00397 0.00397
o-Xylene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Total BTEX		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Inorganic Anions by EPA 300	<i>Extracted:</i>	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00
	<i>Analyzed:</i>	May-10-18 19:26	May-10-18 19:32	May-10-18 19:56	May-10-18 20:02	May-10-18 20:20	May-10-18 20:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		871 4.95	723 5.00	859 4.95	951 5.00	758 25.0	2310 24.9
TPH by SW8015 Mod	<i>Extracted:</i>	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00
	<i>Analyzed:</i>	May-06-18 06:29	May-06-18 06:58	May-06-18 07:24	May-06-18 07:50	May-06-18 09:10	May-06-18 09:36
	<i>Units/RL:</i>	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	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 584936

LT Environmental, Inc., Arvada, CO

Project Name: BEU 39



Project Id: 2RP-3957
Contact: Adrian Baker
Project Location: New Mexico

Date Received in Lab: Fri May-04-18 10:10 am
Report Date: 18-JUN-18
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	584936-013	584936-014	584936-015			
	<i>Field Id:</i>	WS10	WS11	WS12			
	<i>Depth:</i>	3- ft	3- ft	3- ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Apr-30-18 15:20	Apr-30-18 15:25	Apr-30-18 15:30			
BTEX by EPA 8021B	<i>Extracted:</i>	May-09-18 08:00	May-08-18 17:00	May-09-18 08:00			
	<i>Analyzed:</i>	May-09-18 17:29	May-09-18 05:21	May-09-18 17:51			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199			
Toluene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199			
Ethylbenzene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199			
m,p-Xylenes		<0.00403 0.00403	<0.00397 0.00397	<0.00398 0.00398			
o-Xylene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199			
Total Xylenes		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199			
Total BTEX		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199			
Inorganic Anions by EPA 300	<i>Extracted:</i>	May-08-18 12:00	May-08-18 12:00	May-08-18 12:00			
	<i>Analyzed:</i>	May-10-18 20:32	May-10-18 20:38	May-10-18 20:44			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		679 4.95	684 25.0	639 24.9			
TPH by SW8015 Mod	<i>Extracted:</i>	May-05-18 10:00	May-05-18 10:00	May-05-18 10:00			
	<i>Analyzed:</i>	May-06-18 10:03	May-06-18 10:29	May-06-18 10:56			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0			
Oil Range Hydrocarbons (ORO)		<14.9 14.9	<15.0 15.0	<15.0 15.0			
Total TPH		<14.9 14.9	<15.0 15.0	<15.0 15.0			

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: FS 1
Lab Sample Id: 584936-001

Matrix: Soil
Date Collected: 04.30.18 14.20

Date Received: 05.04.18 10.10
Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3049732

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 05.08.18 12.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	705	5.00	mg/kg	05.10.18 18.39		1

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3049201

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 05.05.18 10.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 02.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 02.54	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 02.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 02.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	05.06.18 02.54		
o-Terphenyl	84-15-1	103	%	70-135	05.06.18 02.54		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: FS 1
 Lab Sample Id: 584936-001

Matrix: Soil
 Date Collected: 04.30.18 14.20

Date Received: 05.04.18 10.10
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.08.18 17.00

Basis: Wet Weight

Seq Number: 3049433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.09.18 03.55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.09.18 03.55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.09.18 03.55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.09.18 03.55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.09.18 03.55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.09.18 03.55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.09.18 03.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	05.09.18 03.55		
1,4-Difluorobenzene	540-36-3	89	%	70-130	05.09.18 03.55		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS1** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-002 Date Collected: 04.30.18 14.28 Sample Depth: 2.5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	747	4.99	mg/kg	05.10.18 18.45		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 04.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 04.15	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 04.15	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 04.15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	88	%	70-135	05.06.18 04.15		
o-Terphenyl	84-15-1	90	%	70-135	05.06.18 04.15		



Certificate of Analytical Results 584936



LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS1**
Lab Sample Id: 584936-002

Matrix: Soil
Date Collected: 04.30.18 14.28

Date Received: 05.04.18 10.10
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3049433

Date Prep: 05.08.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.18 04.17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.18 04.17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.18 04.17	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.09.18 04.17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.18 04.17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.18 04.17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.18 04.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	05.09.18 04.17		
1,4-Difluorobenzene	540-36-3	99	%	70-130	05.09.18 04.17		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS2** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-003 Date Collected: 04.30.18 14.32 Sample Depth: 2.5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1190	24.8	mg/kg	05.10.18 18.51		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 04.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 04.44	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 04.44	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 04.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	05.06.18 04.44	
o-Terphenyl	84-15-1	87	%	70-135	05.06.18 04.44	



Certificate of Analytical Results 584936



LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS2** Matrix: **Soil** Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-003 Date Collected: 04.30.18 14.32 Sample Depth: 2.5 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: **ALJ** % Moisture:
 Analyst: **ALJ** Date Prep: 05.08.18 17.00 Basis: **Wet Weight**
 Seq Number: 3049433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.09.18 04.38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.09.18 04.38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.09.18 04.38	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.09.18 04.38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.09.18 04.38	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.09.18 04.38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.09.18 04.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	05.09.18 04.38		
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.09.18 04.38		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS3** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-004 Date Collected: 04.30.18 14.38 Sample Depth: 2.5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1100	5.00	mg/kg	05.10.18 19.09		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 05.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 05.11	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 05.11	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 05.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	05.06.18 05.11	
o-Terphenyl	84-15-1	93	%	70-135	05.06.18 05.11	



Certificate of Analytical Results 584936



LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS3**
Lab Sample Id: 584936-004

Matrix: Soil
Date Collected: 04.30.18 14.38

Date Received: 05.04.18 10.10
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.08.18 17.00

Basis: Wet Weight

Seq Number: 3049433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.18 05.00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.18 05.00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.18 05.00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.09.18 05.00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.18 05.00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.18 05.00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.18 05.00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.09.18 05.00		
1,4-Difluorobenzene	540-36-3	98	%	70-130	05.09.18 05.00		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS4** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-005 Date Collected: 04.30.18 14.47 Sample Depth: 2.5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	269	4.99	mg/kg	05.10.18 19.14		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	05.06.18 05.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	05.06.18 05.38	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	05.06.18 05.38	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	05.06.18 05.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	05.06.18 05.38	
o-Terphenyl	84-15-1	100	%	70-135	05.06.18 05.38	



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS4**
 Lab Sample Id: 584936-005

Matrix: Soil
 Date Collected: 04.30.18 14.47

Date Received: 05.04.18 10.10
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.08.18 17.00

Basis: Wet Weight

Seq Number: 3049433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.09.18 05.43	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.09.18 05.43	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.09.18 05.43	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.09.18 05.43	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.09.18 05.43	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.09.18 05.43	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.09.18 05.43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	85	%	70-130	05.09.18 05.43		
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.09.18 05.43		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: FS2 Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-006 Date Collected: 04.30.18 14.42 Sample Depth: 3 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	454	5.00	mg/kg	05.10.18 19.20		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	05.06.18 06.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	05.06.18 06.03	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	05.06.18 06.03	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	05.06.18 06.03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	05.06.18 06.03		
o-Terphenyl	84-15-1	91	%	70-135	05.06.18 06.03		



Certificate of Analytical Results 584936



LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: FS2
Lab Sample Id: 584936-006

Matrix: Soil
Date Collected: 04.30.18 14.42

Date Received: 05.04.18 10.10
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3049669

Date Prep: 05.09.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.09.18 14.55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.09.18 14.55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.09.18 14.55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.09.18 14.55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.09.18 14.55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.09.18 14.55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.09.18 14.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	88	%	70-130	05.09.18 14.55		
4-Bromofluorobenzene	460-00-4	105	%	70-130	05.09.18 14.55		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS5** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-007 Date Collected: 04.30.18 14.51 Sample Depth: 2.5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	871	4.95	mg/kg	05.10.18 19.26		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 06.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 06.29	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 06.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 06.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	98	%	70-135	05.06.18 06.29		
o-Terphenyl	84-15-1	100	%	70-135	05.06.18 06.29		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS5**
 Lab Sample Id: 584936-007

Matrix: Soil
 Date Collected: 04.30.18 14.51

Date Received: 05.04.18 10.10
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.09.18 08.00

Basis: Wet Weight

Seq Number: 3049669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.09.18 15.16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.09.18 15.16	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.09.18 15.16	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.09.18 15.16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.09.18 15.16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.09.18 15.16	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.09.18 15.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.09.18 15.16		
1,4-Difluorobenzene	540-36-3	97	%	70-130	05.09.18 15.16		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS6** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-008 Date Collected: 04.30.18 14.55 Sample Depth: 2.5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	723	5.00	mg/kg	05.10.18 19.32		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 06.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 06.58	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 06.58	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 06.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	05.06.18 06.58	
o-Terphenyl	84-15-1	87	%	70-135	05.06.18 06.58	



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS6**
 Lab Sample Id: 584936-008

Matrix: Soil
 Date Collected: 04.30.18 14.55

Date Received: 05.04.18 10.10
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3049669

Date Prep: 05.09.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.09.18 15.38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.09.18 15.38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.09.18 15.38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.09.18 15.38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.09.18 15.38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.09.18 15.38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.09.18 15.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	05.09.18 15.38		
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.09.18 15.38		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS7** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-009 Date Collected: 04.30.18 15.03 Sample Depth: 2.5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	859	4.95	mg/kg	05.10.18 19.56		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 07.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 07.24	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 07.24	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 07.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	05.06.18 07.24	
o-Terphenyl	84-15-1	96	%	70-135	05.06.18 07.24	



Certificate of Analytical Results 584936



LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS7**
Lab Sample Id: 584936-009

Matrix: Soil
Date Collected: 04.30.18 15.03

Date Received: 05.04.18 10.10
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.09.18 08.00

Basis: Wet Weight

Seq Number: 3049669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.18 15.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.18 15.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.18 15.59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.09.18 15.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.18 15.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.18 15.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.18 15.59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	05.09.18 15.59		
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.09.18 15.59		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS8** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-010 Date Collected: 04.30.18 15.07 Sample Depth: 2.5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	951	5.00	mg/kg	05.10.18 20.02		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 07.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 07.50	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 07.50	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 07.50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	05.06.18 07.50		
o-Terphenyl	84-15-1	90	%	70-135	05.06.18 07.50		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS8**
 Lab Sample Id: 584936-010

Matrix: Soil
 Date Collected: 04.30.18 15.07

Date Received: 05.04.18 10.10
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.09.18 08.00

Basis: Wet Weight

Seq Number: 3049669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.18 16.21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.18 16.21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.18 16.21	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.09.18 16.21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.18 16.21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.18 16.21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.18 16.21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	05.09.18 16.21		
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.09.18 16.21		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: FS3 Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-011 Date Collected: 04.30.18 15.11 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	758	25.0	mg/kg	05.10.18 20.20		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 09.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 09.10	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 09.10	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 09.10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	05.06.18 09.10		
o-Terphenyl	84-15-1	86	%	70-135	05.06.18 09.10		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: FS3
Lab Sample Id: 584936-011

Matrix: Soil
Date Collected: 04.30.18 15.11

Date Received: 05.04.18 10.10
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.09.18 08.00

Basis: Wet Weight

Seq Number: 3049669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.09.18 16.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.09.18 16.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.09.18 16.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.09.18 16.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.09.18 16.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.09.18 16.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.09.18 16.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.09.18 16.46		
1,4-Difluorobenzene	540-36-3	100	%	70-130	05.09.18 16.46		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS9** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-012 Date Collected: 04.30.18 15.15 Sample Depth: 3 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2310	24.9	mg/kg	05.10.18 20.26		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 09.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 09.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 09.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 09.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	05.06.18 09.36		
o-Terphenyl	84-15-1	101	%	70-135	05.06.18 09.36		



Certificate of Analytical Results 584936



LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS9**
Lab Sample Id: 584936-012

Matrix: Soil
Date Collected: 04.30.18 15.15

Date Received: 05.04.18 10.10
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3049669

Date Prep: 05.09.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.09.18 17.08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.09.18 17.08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.09.18 17.08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.09.18 17.08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.09.18 17.08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.09.18 17.08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.09.18 17.08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	05.09.18 17.08		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.09.18 17.08		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS10** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-013 Date Collected: 04.30.18 15.20 Sample Depth: 3 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	679	4.95	mg/kg	05.10.18 20.32		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	05.06.18 10.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	05.06.18 10.03	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	05.06.18 10.03	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	05.06.18 10.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	05.06.18 10.03	
o-Terphenyl	84-15-1	98	%	70-135	05.06.18 10.03	



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS10**
 Lab Sample Id: 584936-013

Matrix: Soil
 Date Collected: 04.30.18 15.20

Date Received: 05.04.18 10.10
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.09.18 08.00

Basis: Wet Weight

Seq Number: 3049669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.09.18 17.29	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.09.18 17.29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.09.18 17.29	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.09.18 17.29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.09.18 17.29	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.09.18 17.29	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.09.18 17.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.09.18 17.29		
1,4-Difluorobenzene	540-36-3	101	%	70-130	05.09.18 17.29		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS11** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-014 Date Collected: 04.30.18 15.25 Sample Depth: 3 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	684	25.0	mg/kg	05.10.18 20.38		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 10.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 10.29	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 10.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 10.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	05.06.18 10.29	
o-Terphenyl	84-15-1	96	%	70-135	05.06.18 10.29	



Certificate of Analytical Results 584936



LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS11**
Lab Sample Id: 584936-014

Matrix: Soil
Date Collected: 04.30.18 15.25

Date Received: 05.04.18 10.10
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3049433

Date Prep: 05.08.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.09.18 05.21	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.09.18 05.21	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.09.18 05.21	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.09.18 05.21	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.09.18 05.21	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.09.18 05.21	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.09.18 05.21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	05.09.18 05.21		
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.09.18 05.21		



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS12** Matrix: Soil Date Received: 05.04.18 10.10
 Lab Sample Id: 584936-015 Date Collected: 04.30.18 15.30 Sample Depth: 3 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 05.08.18 12.00 Basis: Wet Weight
 Seq Number: 3049732

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	639	24.9	mg/kg	05.10.18 20.44		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.05.18 10.00 Basis: Wet Weight
 Seq Number: 3049201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.06.18 10.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	05.06.18 10.56	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	05.06.18 10.56	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	05.06.18 10.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	05.06.18 10.56	
o-Terphenyl	84-15-1	89	%	70-135	05.06.18 10.56	



Certificate of Analytical Results 584936

LT Environmental, Inc., Arvada, CO

BEU 39

Sample Id: **WS12**
 Lab Sample Id: 584936-015

Matrix: Soil
 Date Collected: 04.30.18 15.30

Date Received: 05.04.18 10.10
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.09.18 08.00

Basis: Wet Weight

Seq Number: 3049669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.09.18 17.51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.09.18 17.51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.09.18 17.51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.09.18 17.51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.09.18 17.51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.09.18 17.51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.09.18 17.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.09.18 17.51		
4-Bromofluorobenzene	460-00-4	102	%	70-130	05.09.18 17.51		



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



LT Environmental, Inc.

BEU 39

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3049732

MB Sample Id: 7644291-1-BLK

Matrix: Solid

LCS Sample Id: 7644291-1-BKS

Prep Method: E300P

Date Prep: 05.08.18

LCSD Sample Id: 7644291-1-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	271	108	275	110	90-110	1	20	mg/kg	05.10.18 18:03	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3049732

Parent Sample Id: 584937-001

Matrix: Soil

MS Sample Id: 584937-001 S

Prep Method: E300P

Date Prep: 05.08.18

MSD Sample Id: 584937-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	307	250	659	141	631	130	90-110	4	20	mg/kg	05.10.18 18:21	X

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3049732

Parent Sample Id: 584937-002

Matrix: Soil

MS Sample Id: 584937-002 S

Prep Method: E300P

Date Prep: 05.08.18

MSD Sample Id: 584937-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	380	249	731	141	709	132	90-110	3	20	mg/kg	05.10.18 19:44	X

Analytical Method: TPH by SW8015 Mod

Seq Number: 3049201

MB Sample Id: 7644170-1-BLK

Matrix: Solid

LCS Sample Id: 7644170-1-BKS

Prep Method: TX1005P

Date Prep: 05.05.18

LCSD Sample Id: 7644170-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	922	92	900	90	70-135	2	20	mg/kg	05.06.18 02:01	
Diesel Range Organics (DRO)	<15.0	1000	977	98	958	96	70-135	2	20	mg/kg	05.06.18 02:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	86		119		118		70-135	%	05.06.18 02:01
o-Terphenyl	89		95		92		70-135	%	05.06.18 02:01

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

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

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



LT Environmental, Inc.

BEU 39

Analytical Method: TPH by SW8015 Mod

Seq Number: 3049201

Parent Sample Id: 584936-001

Matrix: Soil

MS Sample Id: 584936-001 S

Prep Method: TX1005P

Date Prep: 05.05.18

MSD Sample Id: 584936-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	986	99	1040	104	70-135	5	20	mg/kg	05.06.18 03:23	
Diesel Range Organics (DRO)	<15.0	997	1080	108	1130	113	70-135	5	20	mg/kg	05.06.18 03:23	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		110		70-135	%	05.06.18 03:23
o-Terphenyl	106		112		70-135	%	05.06.18 03:23

Analytical Method: BTEX by EPA 8021B

Seq Number: 3049433

MB Sample Id: 7644356-1-BLK

Matrix: Solid

LCS Sample Id: 7644356-1-BKS

Prep Method: SW5030B

Date Prep: 05.08.18

LCSD Sample Id: 7644356-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.112	111	0.0985	99	70-130	13	35	mg/kg	05.09.18 00:43	
Toluene	<0.00201	0.101	0.109	108	0.0958	96	70-130	13	35	mg/kg	05.09.18 00:43	
Ethylbenzene	<0.00201	0.101	0.114	113	0.0997	100	70-130	13	35	mg/kg	05.09.18 00:43	
m,p-Xylenes	<0.00402	0.201	0.236	117	0.206	103	70-130	14	35	mg/kg	05.09.18 00:43	
o-Xylene	<0.00201	0.101	0.117	116	0.105	105	70-130	11	35	mg/kg	05.09.18 00:43	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		99		95		70-130	%	05.09.18 00:43
4-Bromofluorobenzene	109		100		91		70-130	%	05.09.18 00:43

Analytical Method: BTEX by EPA 8021B

Seq Number: 3049669

MB Sample Id: 7644468-1-BLK

Matrix: Solid

LCS Sample Id: 7644468-1-BKS

Prep Method: SW5030B

Date Prep: 05.09.18

LCSD Sample Id: 7644468-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.110	110	0.106	106	70-130	4	35	mg/kg	05.09.18 12:23	
Toluene	<0.00199	0.0996	0.110	110	0.105	105	70-130	5	35	mg/kg	05.09.18 12:23	
Ethylbenzene	<0.00199	0.0996	0.114	114	0.112	112	70-130	2	35	mg/kg	05.09.18 12:23	
m,p-Xylenes	<0.00398	0.199	0.241	121	0.233	117	70-130	3	35	mg/kg	05.09.18 12:23	
o-Xylene	<0.00199	0.0996	0.122	122	0.117	117	70-130	4	35	mg/kg	05.09.18 12:23	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		106		101		70-130	%	05.09.18 12:23
4-Bromofluorobenzene	94		110		99		70-130	%	05.09.18 12:23

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



LT Environmental, Inc.

BEU 39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3049433

Parent Sample Id: 585200-003

Matrix: Soil

MS Sample Id: 585200-003 S

Prep Method: SW5030B

Date Prep: 05.08.18

MSD Sample Id: 585200-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0963	97	0.0965	97	70-130	0	35	mg/kg	05.09.18 01:25	
Toluene	<0.00199	0.0996	0.0923	93	0.0903	90	70-130	2	35	mg/kg	05.09.18 01:25	
Ethylbenzene	<0.00199	0.0996	0.0934	94	0.0886	89	70-130	5	35	mg/kg	05.09.18 01:25	
m,p-Xylenes	<0.00398	0.199	0.193	97	0.181	91	70-130	6	35	mg/kg	05.09.18 01:25	
o-Xylene	<0.00199	0.0996	0.0974	98	0.0917	92	70-130	6	35	mg/kg	05.09.18 01:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		104		70-130	%	05.09.18 01:25
4-Bromofluorobenzene	102		100		70-130	%	05.09.18 01:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3049669

Parent Sample Id: 584937-001

Matrix: Soil

MS Sample Id: 584937-001 S

Prep Method: SW5030B

Date Prep: 05.09.18

MSD Sample Id: 584937-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0986	99	0.0899	90	70-130	9	35	mg/kg	05.09.18 13:08	
Toluene	<0.00199	0.0994	0.0943	95	0.0882	88	70-130	7	35	mg/kg	05.09.18 13:08	
Ethylbenzene	<0.00199	0.0994	0.0999	101	0.0922	92	70-130	8	35	mg/kg	05.09.18 13:08	
m,p-Xylenes	<0.00398	0.199	0.207	104	0.193	97	70-130	7	35	mg/kg	05.09.18 13:08	
o-Xylene	<0.00199	0.0994	0.105	106	0.0991	99	70-130	6	35	mg/kg	05.09.18 13:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		107		70-130	%	05.09.18 13:08
4-Bromofluorobenzene	116		106		70-130	%	05.09.18 13:08

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

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

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

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



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5804936

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes														
Company Name / Branch: LTE Midland				Project Name/Number: BEU 39																						
Company Address: 3300 North A St Building 1, Unit #103 Midland TX				Project Location: New Mexico																						
Email: ABaker@LTENV.com Phone No: 439 894-5641				Invoice To: Kyle Littrell																						
Project Contact: Adrian Baker				PO Number: 30-015-20945				200-3954																		
Sampler's Name: Glen Thompson																										
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE	Field Comments											
1	FS1	3'	4/30/18	1420	S	1									BTX EPA Method 8021											
2	WS1	2.5'		1428	S	1									TPH EPA Method 8015											
3	WS2	2.5'		1432	S	1									Chloride EPA Method 300.1											
4	WS3	2.5'		1438	S	1																				
5	WS4	2.5'		1447	S	1																				
6	FS2	3'		1442	S	1																				
7	WS5	2.5'		1451	S	1																				
8	WS6	2.5'		1455	S	1																				
9	WS7	2.5'		1503	S	1																				
10	WS8	2.5'		1507	S	1																				
Turnaround Time (Business days)															Data Deliverable Information											
☐ Same Day TAT															☐ Level II Std QC				☐ Level IV (Full Data Pkg /raw data)							
☐ Next Day EMERGENCY															☐ Level III Std QC+ Forms				☐ TRRP Level IV							
☐ 2 Day EMERGENCY															☐ Contract TAT				☐ Level 3 (CLP Forms)				☐ UST / RG -411			
☐ 3 Day EMERGENCY															☐ TRRP Checklist											
TAT Starts Day received by Lab, if received by 5:00 pm																										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																										
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Field Notes										
1		5/2/18 1720		1		5/2/18 1720		1		5/2/18 1720		1		5/2/18 1720		Temp: 1.4 CF: (0-6: -0.2°C) (6-23: +0.2°C) Corrected Temp: 1.2 IR ID: R-8										
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Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 2 of 2

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

www.xenco.com

Phoenix, Arizona (480-355-0900)

Xenco Quote #

Xenco Job #

5804936

Client / Reporting Information

Company Name / Branch:

LTE Midland

Company Address:

3300 North A St, Building 1, Unit #103
Midland, TX

Email:

Phone No:

ABaker@LTELV.com 439 894 5641

Project Contact:

Adrian Baker

Samplers Name: Glenn Thompson

Project Information

Project Name/Number:

REV 39

Project Location:

New Mexico

Invoice To:

Kyle Littrell

PO Number:

30-015-20945

Collection

200-5954

No. Field ID / Point of Collection

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE	Number of preserved bottles	Field Comments
1	FS3	4'	4/30/18	1511	S	1									1	BIEX EPA Method 8021
2	WS9	3'		1515	S	1									1	TPH EPA Method 8015
3	WS10	3'		1520	S	1									1	Chloride EPA Method 300.1
4	WS11	3'		1525	S	1									1	
5	WS12	3'		1530	S	1									1	
6																
7																
8																
9																
10																

Data Deliverable Information

Not

Same Day TAT ☒ 5 Day TAT

Next Day EMERGENCY ☐ 7 Day TAT

2 Day EMERGENCY ☐ Contract TAT

3 Day EMERGENCY ☐ TRRP Checklist

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

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 ☐

Temp: 1.4 IR ID: R-8

CF: (0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: 1.2

FED-EX / UPS: Tracking #

Relinquished by Sampler:

Relinquished by:

Relinquished by:

Relinquished by:

Matrix Codes

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



Client: LT Environmental, Inc.

Date/ Time Received: 05/04/2018 10:10:00 AM

Work Order #: 584936

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)?	1.2
#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:

Katie Lowe

Date: 05/04/2018

Checklist reviewed by:

Jessica Kramer

Date: 05/04/2018

Analytical Report 587962

for
LT Environmental, Inc.

Project Manager: Adrian Baker

BEU-039

21-JUN-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



21-JUN-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **587962**

BEU-039

Project Address: NM 2RP-3957

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) 587962. 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. 587962 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,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW 5A @ 3.5'	S	05-25-18 15:30	3 - 5 ft	587962-001
SW 8A	S	05-25-18 15:50	3 - 5 ft	587962-002
SW 6A	S	05-29-18 10:00	3 - 5 ft	587962-003
SW 13	S	05-29-18 12:25	3 - 5 ft	587962-004
FS 4	S	05-29-18 12:30	3 - 5 ft	587962-005
SW 14	S	05-29-18 13:00	3 - 5 ft	587962-006
SW 11A @ 4'	S	05-30-18 09:15	4 ft	587962-007
SW10A @ 4'	S	05-30-18 09:25	4 ft	587962-008
FS1 A @ 7'	S	05-30-18 11:40	7 ft	587962-009
SW3A @ 6'	S	05-30-18 12:30	6 ft	587962-010
FS2A @ 7'	S	05-31-18 12:35	7 ft	587962-011

**CASE NARRATIVE****Client Name: LT Environmental, Inc.****Project Name: BEU-039**

Project ID:
Work Order Number(s): 587962

Report Date: 21-JUN-18
Date Received: 06/02/2018

Sample receipt non conformances and comments:

Sent revision 06/21/18 - changed sample 011 from FS24 to FS2A per client JKR

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3052795 BTEX by EPA 8021B

Lab Sample ID 587962-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 587962-001, -002.

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.

Batch: LBA-3052812 BTEX by EPA 8021B

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

Batch: LBA-3052863 BTEX by EPA 8021B

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



Certificate of Analysis Summary 587962

LT Environmental, Inc., Arvada, CO

Project Name: BEU-039



Project Id:

Contact: Adrian Baker

Project Location: NM 2RP-3957

Date Received in Lab: Sat Jun-02-18 03:00 pm

Report Date: 21-JUN-18

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	587962-001	587962-002	587962-003	587962-004	587962-005	587962-006
	<i>Field Id:</i>	SW 5A @ 3.5'	SW 8A	SW 6A	SW 13	FS 4	SW 14
	<i>Depth:</i>	3-5 ft	3-5 ft	3-5 ft	3-5 ft	3-5 ft	3-5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	May-25-18 15:30	May-25-18 15:50	May-29-18 10:00	May-29-18 12:25	May-29-18 12:30	May-29-18 13:00
BTEX by EPA 8021B	<i>Extracted:</i>	Jun-07-18 12:00	Jun-07-18 12:00	Jun-07-18 16:00	Jun-07-18 16:00	Jun-07-18 16:00	Jun-07-18 16:00
	<i>Analyzed:</i>	Jun-07-18 19:53	Jun-07-18 23:29	Jun-08-18 10:21	Jun-08-18 10:39	Jun-08-18 10:58	Jun-08-18 11:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00399 0.00399	<0.00400 0.00400	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Inorganic Anions by EPA 300	<i>Extracted:</i>	Jun-05-18 15:00	Jun-05-18 15:00	Jun-06-18 08:30	Jun-06-18 08:30	Jun-06-18 08:30	Jun-06-18 08:30
	<i>Analyzed:</i>	Jun-05-18 18:55	Jun-05-18 19:01	Jun-06-18 09:57	Jun-06-18 10:02	Jun-06-18 10:08	Jun-06-18 09:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		346 4.93	457 4.96	169 4.95	125 4.98	371 4.99	308 4.93
TPH by SW8015 Mod	<i>Extracted:</i>	Jun-04-18 16:00	Jun-04-18 16:00	Jun-04-18 16:00	Jun-04-18 16:00	Jun-04-18 16:00	Jun-04-18 16:00
	<i>Analyzed:</i>	Jun-04-18 19:03	Jun-04-18 20:05	Jun-04-18 20:25	Jun-04-18 20:46	Jun-04-18 21:06	Jun-04-18 21:27
	<i>Units/RL:</i>	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	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	24.8 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	17.7 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	42.5 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 587962

LT Environmental, Inc., Arvada, CO

Project Name: BEU-039



Project Id:

Contact: Adrian Baker

Project Location: NM 2RP-3957

Date Received in Lab: Sat Jun-02-18 03:00 pm

Report Date: 21-JUN-18

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	587962-007	587962-008	587962-009	587962-010	587962-011	
	Field Id:	SW 11A @ 4'	SW10A @ 4'	FS1 A @ 7'	SW3A @6'	FS2A @ 7'	
	Depth:	4- ft	4- ft	7- ft	6- ft	7- ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	May-30-18 09:15	May-30-18 09:25	May-30-18 11:40	May-30-18 12:30	May-31-18 12:35	
BTEX by EPA 8021B	Extracted:	Jun-07-18 16:00	Jun-08-18 16:30	Jun-08-18 16:30	Jun-08-18 16:30	Jun-08-18 16:30	
	Analyzed:	Jun-08-18 16:11	Jun-08-18 21:58	Jun-08-18 22:16	Jun-08-18 22:34	Jun-08-18 20:12	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	
Toluene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402	<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	
Total BTEX		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	
Inorganic Anions by EPA 300	Extracted:	Jun-06-18 08:30	Jun-06-18 08:30	Jun-06-18 08:30	Jun-06-18 08:30	Jun-06-18 08:30	
	Analyzed:	Jun-06-18 10:24	Jun-06-18 10:29	Jun-06-18 10:35	Jun-06-18 10:40	Jun-06-18 10:45	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		416 24.9	389 4.99	372 24.6	325 24.7	529 24.8	
TPH by SW8015 Mod	Extracted:	Jun-04-18 16:00	Jun-04-18 16:00	Jun-04-18 16:00	Jun-04-18 16:00	Jun-04-18 16:00	
	Analyzed:	Jun-04-18 21:47	Jun-04-18 22:08	Jun-04-18 22:28	Jun-04-18 22:49	Jun-04-18 23:50	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Diesel Range Organics (DRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Total TPH		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: SW 5A @ 3.5'

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-001

Date Collected: 05.25.18 15.30

Sample Depth: 3 - 5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.05.18 15.00

Basis: Wet Weight

Seq Number: 3052395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	346	4.93	mg/kg	06.05.18 18.55		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Seq Number: 3052253

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 19.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 19.03	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 19.03	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 19.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	06.04.18 19.03	
o-Terphenyl	84-15-1	97	%	70-135	06.04.18 19.03	



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: SW 5A @ 3.5'

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-001

Date Collected: 05.25.18 15.30

Sample Depth: 3 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.07.18 12.00

Basis: Wet Weight

Seq Number: 3052795

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.07.18 19.53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.07.18 19.53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.07.18 19.53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.07.18 19.53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.07.18 19.53	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.07.18 19.53	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.07.18 19.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.07.18 19.53		
4-Bromofluorobenzene	460-00-4	99	%	70-130	06.07.18 19.53		



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW 8A**
 Lab Sample Id: 587962-002

Matrix: Soil
 Date Collected: 05.25.18 15.50

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052395

Prep Method: E300P

% Moisture:

Date Prep: 06.05.18 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	457	4.96	mg/kg	06.05.18 19.01		1

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052253

Prep Method: TX1005P

% Moisture:

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 20.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	24.8	15.0	mg/kg	06.04.18 20.05		1
Oil Range Hydrocarbons (ORO)	PHCG2835	17.7	15.0	mg/kg	06.04.18 20.05		1
Total TPH	PHC635	42.5	15.0	mg/kg	06.04.18 20.05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	06.04.18 20.05	
o-Terphenyl	84-15-1	92	%	70-135	06.04.18 20.05	



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW 8A**
 Lab Sample Id: 587962-002

Matrix: Soil
 Date Collected: 05.25.18 15.50

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.07.18 12.00

Basis: Wet Weight

Seq Number: 3052795

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.07.18 23.29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.07.18 23.29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.07.18 23.29	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.07.18 23.29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.07.18 23.29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.07.18 23.29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.07.18 23.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	70-130	06.07.18 23.29		
1,4-Difluorobenzene	540-36-3	93	%	70-130	06.07.18 23.29		



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW 6A**
 Lab Sample Id: 587962-003

Matrix: Soil
 Date Collected: 05.29.18 10.00

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052444

Prep Method: E300P

% Moisture:

Date Prep: 06.06.18 08.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	169	4.95	mg/kg	06.06.18 09.57		1

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052253

Prep Method: TX1005P

% Moisture:

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 20.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 20.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 20.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 20.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	06.04.18 20.25	
o-Terphenyl	84-15-1	85	%	70-135	06.04.18 20.25	



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW 6A**
 Lab Sample Id: 587962-003

Matrix: Soil
 Date Collected: 05.29.18 10.00

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.07.18 16.00

Basis: Wet Weight

Seq Number: 3052812

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.18 10.21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.18 10.21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.18 10.21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.08.18 10.21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.18 10.21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.18 10.21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.18 10.21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.08.18 10.21		
1,4-Difluorobenzene	540-36-3	104	%	70-130	06.08.18 10.21		



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW 13**
 Lab Sample Id: 587962-004

Matrix: Soil
 Date Collected: 05.29.18 12.25

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052444

Prep Method: E300P

% Moisture:

Date Prep: 06.06.18 08.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	125	4.98	mg/kg	06.06.18 10.02		1

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052253

Prep Method: TX1005P

% Moisture:

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 20.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 20.46	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 20.46	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 20.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	06.04.18 20.46	
o-Terphenyl	84-15-1	87	%	70-135	06.04.18 20.46	



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW 13**
 Lab Sample Id: 587962-004

Matrix: Soil
 Date Collected: 05.29.18 12.25

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.07.18 16.00

Basis: Wet Weight

Seq Number: 3052812

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.18 10.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.18 10.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.18 10.39	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.08.18 10.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.18 10.39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.18 10.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.18 10.39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	122	%	70-130	06.08.18 10.39		
1,4-Difluorobenzene	540-36-3	104	%	70-130	06.08.18 10.39		



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: FS 4
Lab Sample Id: 587962-005

Matrix: Soil
Date Collected: 05.29.18 12.30

Date Received: 06.02.18 15.00
Sample Depth: 3 - 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052444

Prep Method: E300P

% Moisture:

Date Prep: 06.06.18 08.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	371	4.99	mg/kg	06.06.18 10.08		1

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052253

Prep Method: TX1005P

% Moisture:

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 21.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 21.06	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 21.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 21.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	06.04.18 21.06	
o-Terphenyl	84-15-1	86	%	70-135	06.04.18 21.06	



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **FS 4**
 Lab Sample Id: 587962-005

Matrix: Soil
 Date Collected: 05.29.18 12.30

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.07.18 16.00

Basis: Wet Weight

Seq Number: 3052812

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.08.18 10.58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.08.18 10.58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.08.18 10.58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.08.18 10.58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.08.18 10.58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.08.18 10.58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.08.18 10.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	06.08.18 10.58		
4-Bromofluorobenzene	460-00-4	126	%	70-130	06.08.18 10.58		



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW 14**
 Lab Sample Id: 587962-006

Matrix: Soil
 Date Collected: 05.29.18 13.00

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052444

Prep Method: E300P

% Moisture:

Date Prep: 06.06.18 08.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	308	4.93	mg/kg	06.06.18 09.35		1

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052253

Prep Method: TX1005P

% Moisture:

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 21.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 21.27	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 21.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 21.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	06.04.18 21.27	
o-Terphenyl	84-15-1	87	%	70-135	06.04.18 21.27	



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW 14**
 Lab Sample Id: 587962-006

Matrix: Soil
 Date Collected: 05.29.18 13.00

Date Received: 06.02.18 15.00
 Sample Depth: 3 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.07.18 16.00

Basis: Wet Weight

Seq Number: 3052812

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.08.18 11.16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.08.18 11.16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.08.18 11.16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.08.18 11.16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.08.18 11.16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.08.18 11.16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.08.18 11.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	06.08.18 11.16		
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.08.18 11.16		



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: SW 11A @ 4'

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-007

Date Collected: 05.30.18 09.15

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.06.18 08.30

Basis: Wet Weight

Seq Number: 3052444

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	416	24.9	mg/kg	06.06.18 10.24		5

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Seq Number: 3052253

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 21.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 21.47	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 21.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 21.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	06.04.18 21.47	
o-Terphenyl	84-15-1	88	%	70-135	06.04.18 21.47	



Certificate of Analytical Results 587962



LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: SW 11A @ 4'

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-007

Date Collected: 05.30.18 09.15

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.07.18 16.00

Basis: Wet Weight

Seq Number: 3052812

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.18 16.11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.18 16.11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.18 16.11	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.08.18 16.11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.18 16.11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.18 16.11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.18 16.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	06.08.18 16.11		
1,4-Difluorobenzene	540-36-3	100	%	70-130	06.08.18 16.11		



Certificate of Analytical Results 587962

LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW10A @ 4'** Matrix: Soil Date Received: 06.02.18 15.00
 Lab Sample Id: 587962-008 Date Collected: 05.30.18 09.25 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 06.06.18 08.30 Basis: Wet Weight
 Seq Number: 3052444

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	389	4.99	mg/kg	06.06.18 10.29		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 06.04.18 16.00 Basis: Wet Weight
 Seq Number: 3052253

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.04.18 22.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.04.18 22.08	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	06.04.18 22.08	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.04.18 22.08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	06.04.18 22.08		
o-Terphenyl	84-15-1	85	%	70-135	06.04.18 22.08		



Certificate of Analytical Results 587962



LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW10A @ 4'**

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-008

Date Collected: 05.30.18 09.25

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.08.18 16.30

Basis: Wet Weight

Seq Number: 3052863

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.08.18 21.58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.08.18 21.58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.08.18 21.58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.08.18 21.58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.08.18 21.58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.08.18 21.58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.08.18 21.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.08.18 21.58		
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.08.18 21.58		



Certificate of Analytical Results 587962



LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: FS1 A @ 7' Matrix: Soil Date Received: 06.02.18 15.00
 Lab Sample Id: 587962-009 Date Collected: 05.30.18 11.40 Sample Depth: 7 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 06.06.18 08.30 Basis: Wet Weight
 Seq Number: 3052444

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	372	24.6	mg/kg	06.06.18 10.35		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 06.04.18 16.00 Basis: Wet Weight
 Seq Number: 3052253

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 22.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 22.28	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 22.28	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 22.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	06.04.18 22.28	
o-Terphenyl	84-15-1	90	%	70-135	06.04.18 22.28	



Certificate of Analytical Results 587962



LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **FS1 A @ 7'**

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-009

Date Collected: 05.30.18 11.40

Sample Depth: 7 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.08.18 16.30

Basis: Wet Weight

Seq Number: 3052863

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.18 22.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.18 22.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.18 22.16	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.08.18 22.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.18 22.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.18 22.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.18 22.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	06.08.18 22.16		
1,4-Difluorobenzene	540-36-3	102	%	70-130	06.08.18 22.16		



Certificate of Analytical Results 587962



LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW3A @6'**

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-010

Date Collected: 05.30.18 12.30

Sample Depth: 6 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.06.18 08.30

Basis: Wet Weight

Seq Number: 3052444

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	325	24.7	mg/kg	06.06.18 10.40		5

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Seq Number: 3052253

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 22.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 22.49	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 22.49	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 22.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	06.04.18 22.49	
o-Terphenyl	84-15-1	85	%	70-135	06.04.18 22.49	



Certificate of Analytical Results 587962



LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: **SW3A @6'**

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-010

Date Collected: 05.30.18 12.30

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.08.18 16.30

Basis: Wet Weight

Seq Number: 3052863

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.08.18 22.34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.08.18 22.34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.08.18 22.34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.08.18 22.34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.08.18 22.34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.08.18 22.34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.08.18 22.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.08.18 22.34		
4-Bromofluorobenzene	460-00-4	110	%	70-130	06.08.18 22.34		



Certificate of Analytical Results 587962



LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: FS2A @ 7'

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-011

Date Collected: 05.31.18 12.35

Sample Depth: 7 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.06.18 08.30

Basis: Wet Weight

Seq Number: 3052444

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	529	24.8	mg/kg	06.06.18 10.45		5

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.04.18 16.00

Basis: Wet Weight

Seq Number: 3052253

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.04.18 23.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.04.18 23.50	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.04.18 23.50	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.04.18 23.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	06.04.18 23.50	
o-Terphenyl	84-15-1	90	%	70-135	06.04.18 23.50	



Certificate of Analytical Results 587962



LT Environmental, Inc., Arvada, CO

BEU-039

Sample Id: FS2A @ 7'

Matrix: Soil

Date Received: 06.02.18 15.00

Lab Sample Id: 587962-011

Date Collected: 05.31.18 12.35

Sample Depth: 7 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.08.18 16.30

Basis: Wet Weight

Seq Number: 3052863

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.18 20.12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.18 20.12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.18 20.12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.08.18 20.12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.18 20.12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.18 20.12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.18 20.12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	70-130	06.08.18 20.12		
4-Bromofluorobenzene	460-00-4	96	%	70-130	06.08.18 20.12		



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- 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



LT Environmental, Inc.

BEU-039

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052395

MB Sample Id: 7656041-1-BLK

Matrix: Solid

LCS Sample Id: 7656041-1-BKS

Prep Method: E300P

Date Prep: 06.05.18

LCSD Sample Id: 7656041-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	263	105	256	102	90-110	3	20	mg/kg	06.05.18 16:24	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052444

MB Sample Id: 7656086-1-BLK

Matrix: Solid

LCS Sample Id: 7656086-1-BKS

Prep Method: E300P

Date Prep: 06.06.18

LCSD Sample Id: 7656086-1-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	06.06.18 09:24	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052395

Parent Sample Id: 587837-010

Matrix: Soil

MS Sample Id: 587837-010 S

Prep Method: E300P

Date Prep: 06.05.18

MSD Sample Id: 587837-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.95	248	266	107	260	105	90-110	2	20	mg/kg	06.05.18 16:40	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052395

Parent Sample Id: 587927-003

Matrix: Soil

MS Sample Id: 587927-003 S

Prep Method: E300P

Date Prep: 06.05.18

MSD Sample Id: 587927-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	914	249	1160	99	1120	83	90-110	4	20	mg/kg	06.05.18 17:56	X

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052444

Parent Sample Id: 587962-006

Matrix: Soil

MS Sample Id: 587962-006 S

Prep Method: E300P

Date Prep: 06.06.18

MSD Sample Id: 587962-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	308	247	544	96	545	96	90-110	0	20	mg/kg	06.06.18 09:41	

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



LT Environmental, Inc.

BEU-039

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052444

Parent Sample Id: 587963-001

Matrix: Soil

MS Sample Id: 587963-001 S

Prep Method: E300P

Date Prep: 06.06.18

MSD Sample Id: 587963-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	164	249	414	100	411	99	90-110	1	20	mg/kg	06.06.18 10:56	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3052253

MB Sample Id: 7655985-1-BLK

Matrix: Solid

LCS Sample Id: 7655985-1-BKS

Prep Method: TX1005P

Date Prep: 06.04.18

LCSD Sample Id: 7655985-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	866	87	913	91	70-135	5	20	mg/kg	06.04.18 18:22	
Diesel Range Organics (DRO)	<15.0	1000	911	91	955	96	70-135	5	20	mg/kg	06.04.18 18:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		117		119		70-135	%	06.04.18 18:22
o-Terphenyl	94		110		111		70-135	%	06.04.18 18:22

Analytical Method: TPH by SW8015 Mod

Seq Number: 3052253

Parent Sample Id: 587962-001

Matrix: Soil

MS Sample Id: 587962-001 S

Prep Method: TX1005P

Date Prep: 06.04.18

MSD Sample Id: 587962-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	842	84	916	92	70-135	8	20	mg/kg	06.04.18 19:24	
Diesel Range Organics (DRO)	<15.0	999	878	88	960	96	70-135	9	20	mg/kg	06.04.18 19:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		115		70-135	%	06.04.18 19:24
o-Terphenyl	95		102		70-135	%	06.04.18 19:24

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



LT Environmental, Inc.

BEU-039

Analytical Method: BTEX by EPA 8021B

Seq Number: 3052795

MB Sample Id: 7656286-1-BLK

Matrix: Solid

LCS Sample Id: 7656286-1-BKS

Prep Method: SW5030B

Date Prep: 06.07.18

LCSD Sample Id: 7656286-1-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	0.0915	92	0.0903	91	70-130	1	35	mg/kg	06.07.18 18:04	
Toluene	<0.00200	0.100	0.0987	99	0.0948	95	70-130	4	35	mg/kg	06.07.18 18:04	
Ethylbenzene	<0.00200	0.100	0.0962	96	0.0946	95	70-130	2	35	mg/kg	06.07.18 18:04	
m,p-Xylenes	<0.00401	0.200	0.201	101	0.197	99	70-130	2	35	mg/kg	06.07.18 18:04	
o-Xylene	<0.00200	0.100	0.0943	94	0.0907	91	70-130	4	35	mg/kg	06.07.18 18:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		103		70-130	%	06.07.18 18:04
4-Bromofluorobenzene	97		100		102		70-130	%	06.07.18 18:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3052812

MB Sample Id: 7656308-1-BLK

Matrix: Solid

LCS Sample Id: 7656308-1-BKS

Prep Method: SW5030B

Date Prep: 06.07.18

LCSD Sample Id: 7656308-1-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	0.0782	78	0.0826	83	70-130	5	35	mg/kg	06.08.18 02:47	
Toluene	<0.00200	0.100	0.0810	81	0.0878	88	70-130	8	35	mg/kg	06.08.18 02:47	
Ethylbenzene	<0.00200	0.100	0.0813	81	0.0859	86	70-130	6	35	mg/kg	06.08.18 02:47	
m,p-Xylenes	<0.00401	0.200	0.168	84	0.179	90	70-130	6	35	mg/kg	06.08.18 02:47	
o-Xylene	<0.00200	0.100	0.0805	81	0.0861	86	70-130	7	35	mg/kg	06.08.18 02:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		103		93		70-130	%	06.08.18 02:47
4-Bromofluorobenzene	98		84		87		70-130	%	06.08.18 02:47

Analytical Method: BTEX by EPA 8021B

Seq Number: 3052863

MB Sample Id: 7656325-1-BLK

Matrix: Solid

LCS Sample Id: 7656325-1-BKS

Prep Method: SW5030B

Date Prep: 06.08.18

LCSD Sample Id: 7656325-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0941	93	0.0936	94	70-130	1	35	mg/kg	06.08.18 18:07	
Toluene	<0.00202	0.101	0.0986	98	0.0970	97	70-130	2	35	mg/kg	06.08.18 18:07	
Ethylbenzene	<0.00202	0.101	0.0962	95	0.0990	99	70-130	3	35	mg/kg	06.08.18 18:07	
m,p-Xylenes	<0.00403	0.202	0.201	100	0.206	102	70-130	2	35	mg/kg	06.08.18 18:07	
o-Xylene	<0.00202	0.101	0.100	99	0.0989	99	70-130	1	35	mg/kg	06.08.18 18:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		104		70-130	%	06.08.18 18:07
4-Bromofluorobenzene	95		91		102		70-130	%	06.08.18 18:07

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



LT Environmental, Inc.

BEU-039

Analytical Method: BTEX by EPA 8021B

Seq Number: 3052795

Parent Sample Id: 587962-001

Matrix: Soil

MS Sample Id: 587962-001 S

Prep Method: SW5030B

Date Prep: 06.07.18

MSD Sample Id: 587962-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0530	53	0.0655	66	70-130	21	35	mg/kg	06.07.18 18:40	X
Toluene	<0.00201	0.100	0.0530	53	0.0685	69	70-130	26	35	mg/kg	06.07.18 18:40	X
Ethylbenzene	<0.00201	0.100	0.0516	52	0.0662	66	70-130	25	35	mg/kg	06.07.18 18:40	X
m,p-Xylenes	<0.00402	0.201	0.107	53	0.138	69	70-130	25	35	mg/kg	06.07.18 18:40	X
o-Xylene	<0.00201	0.100	0.0512	51	0.0662	66	70-130	26	35	mg/kg	06.07.18 18:40	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		95		70-130	%	06.07.18 18:40
4-Bromofluorobenzene	105		100		70-130	%	06.07.18 18:40

Analytical Method: BTEX by EPA 8021B

Seq Number: 3052812

Parent Sample Id: 587900-012

Matrix: Soil

MS Sample Id: 587900-012 S

Prep Method: SW5030B

Date Prep: 06.07.18

MSD Sample Id: 587900-012 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	0.0998	0.0497	50	0.0459	45	70-130	8	35	mg/kg	06.08.18 08:25	X
Toluene	<0.00200	0.0998	0.0468	47	0.0374	37	70-130	22	35	mg/kg	06.08.18 08:25	X
Ethylbenzene	<0.00200	0.0998	0.0386	39	0.0243	24	70-130	45	35	mg/kg	06.08.18 08:25	XF
m,p-Xylenes	<0.00399	0.200	0.0787	39	0.0476	24	70-130	49	35	mg/kg	06.08.18 08:25	XF
o-Xylene	<0.00200	0.0998	0.0412	41	0.0245	24	70-130	51	35	mg/kg	06.08.18 08:25	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		97		70-130	%	06.08.18 08:25
4-Bromofluorobenzene	95		104		70-130	%	06.08.18 08:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3052863

Parent Sample Id: 588647-001

Matrix: Soil

MS Sample Id: 588647-001 S

Prep Method: SW5030B

Date Prep: 06.08.18

MSD Sample Id: 588647-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0710	71	0.0672	67	70-130	5	35	mg/kg	06.08.18 18:43	X
Toluene	<0.00199	0.0996	0.0749	75	0.0721	71	70-130	4	35	mg/kg	06.08.18 18:43	
Ethylbenzene	<0.00199	0.0996	0.0736	74	0.0700	69	70-130	5	35	mg/kg	06.08.18 18:43	X
m,p-Xylenes	<0.00398	0.199	0.154	77	0.146	73	70-130	5	35	mg/kg	06.08.18 18:43	
o-Xylene	<0.00199	0.0996	0.0815	82	0.0704	70	70-130	15	35	mg/kg	06.08.18 18:43	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		105		70-130	%	06.08.18 18:43
4-Bromofluorobenzene	103		108		70-130	%	06.08.18 18:43

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



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 1 of 2

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

www.xenco.com

Phoenix, Arizona (480-355-0900)

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes			
Company Name / Branch: <u>LT Environmental Inc. Permian Office</u>				Project Name/Number: <u>BEU-039</u>				Xenco Quote #				Xenco Job #			
Company Address: <u>3800 North A St. Building Unit 103, Midland TX 79705</u>				Project Location: <u>NM</u>											
Email: <u>abaker@ltenv.com (432) 704-5178</u>				Invoice To: <u>TRP-3957</u>											
Project Contact: <u>Adrian Baker</u>				PO Number: <u>XTD Energy - Kyle Little</u>											
Sampler's Name															
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE	Field Comments
1	SW 5A @ 3.5'	3.5'	05/25/18	15:30	S	1									W well
2	SW 8A	3.5'	05/29/18	15:50	S	1									S well
3	SW 6A		05/29/18	12:00	S	1									N well
4	SW 13			12:25	S	1									E well
5	FS 4			12:30	S	1									flow
6	SW 14			13:00	S	1									W well #2
7	SW 11A @ 4'	4'	05/18/18	9:15	S	1									S well PS
8	SW 10A @ 4'	4'	05/30/18	9:25	S	1									
9	FS 2A @ 7'	7'	05/30/18	11:40	S	1									
10	SW 3A @ 6'	6'	05/26/18	12:30	S	1									S well
Turnaround Time (Business days)															
Data Deliverable Information															
Notes:															
☐ Same Day TAT ☒ 5 Day TAT ☐ Level II Std QC ☐ Level IV (Full Data Pkg / raw data) ☐ Next Day EMERGENCY ☐ 7 Day TAT ☐ Level III Std QC+ Forms ☐ TRRP Level IV ☐ 2 Day EMERGENCY ☐ Contract TAT ☐ Level 3 (CLP Forms) ☐ UST / RG -411 ☐ 3 Day EMERGENCY ☐ TRRP Checklist															
TAT Starts Day received by Lab, if received by 5:00 pm															
SAMPLE CUSTODY MUST BE DOCUMENTED BY EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY															
FED-EX / UPS: Tracking #															
Relinquished by Sampler: <u>[Signature]</u> Date Time: <u>5/21/18 16:50</u> Received By: <u>[Signature]</u> Relinquished By: <u>[Signature]</u> Date Time: <u>6/21/18 15:30</u> Relinquished by: <u>[Signature]</u> Date Time: <u>5/21/18 16:50</u> Received By: <u>[Signature]</u> Relinquished By: <u>[Signature]</u> Date Time: <u>6/21/18 15:30</u> Relinquished by: <u>[Signature]</u> Date Time: <u>5/21/18 16:50</u> Received By: <u>[Signature]</u> Relinquished By: <u>[Signature]</u> Date Time: <u>6/21/18 15:30</u>															
Date Time: <u>5/21/18 16:50</u> Received By: <u>[Signature]</u> Date Time: <u>6/21/18 15:30</u> Received By: <u>[Signature]</u> Date Time: <u>5/21/18 16:50</u> Received By: <u>[Signature]</u> Date Time: <u>6/21/18 15:30</u> Received By: <u>[Signature]</u> Date Time: <u>5/21/18 16:50</u> Received By: <u>[Signature]</u> Date Time: <u>6/21/18 15:30</u> Received By: <u>[Signature]</u>															
On Ice ☒ Cooler Temp. <u>3.0</u> Thermo. Corr. Factor <u>1.0</u> Preserved where applicable ☐															

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 losses 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.



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CHAIN OF CUSTODY

Page 2 of 2

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

www.xenco.com

Phoenix, Arizona (480-355-0900)

Xenco Quote #

Xenco Job #

557912

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes			
Company Name / Branch: LITTON, David, Inc. Permian Office				Project Name/Number: BEU-039											
Company Address: 3300 North 4th St. Building 1 Unit 103 Midland TX 79705				Project Location: NM				Invoice To: XTO Energy - Kyle Littlell							
Email: abaker@littlen.com (432) 704-5178				Phone No:				PO Number:							
Project Contact: Adrian Baker															
Sampler's Name															
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE	Field Comments	
1	ES 2A @ 7'	7'	05/31/18	10:25	S	1								BTEX 8021 (only BTEX) TPH (MRO, GRO, DRO) 8015 Chloride (300.0)	
2															
3															
4															
5															
6															
7															
8															
9															
10															
Turnaround Time (Business days)				Data Deliverable Information				Notes:							
☐ Same Day TAT				☒ 5 Day TAT				☐ Level II Std QC				☐ Level IV (Full Data Pkg / raw data)			
☐ Next Day EMERGENCY				☐ 7 Day TAT				☐ Level III Std QC + Forms				☐ TRRP Level IV			
☐ 2 Day EMERGENCY				☐ Contract TAT				☐ Level 3 (CLP Forms)				☐ UST / RG -411			
☐ 3 Day EMERGENCY								☐ TRRP Checklist							
TAT Starts Day received by Lab, if received by 5:00 pm															
Relinquished by Sampler:				SAMPLE CUSTODY MUST BE DOCUMENTED BEFORE EACH TIME SAMPLES CHANGE POSSESSION/INCLUDING COURIER DELIVERY											
Date Time: 05/31/18 16:50				Received By: [Signature]				Relinquished By: [Signature]				Date Time: 06/11/18 15:30			
Relinquished by:				Date Time: 05/31/18 16:50				Received By: [Signature]				Relinquished By: [Signature]			
3				Date Time:				Received By:				Custody Seal #			
Relinquished by:				Date Time:				Received By:				Preserved where applicable			
5				Date Time:				Received By:				On Ice			
												Cooler Temp.			
												Thermo Corr. Factor			

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 losses 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.



Client: LT Environmental, Inc.

Date/ Time Received: 06/02/2018 03:00:00 PM

Work Order #: 587962

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 *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: 06/04/2018

Checklist reviewed by:

Jessica Kramer

Date: 06/05/2018

Analytical Report 588290

for
LT Environmental, Inc.

Project Manager: Adrian Baker

2RP-3957

BEU-039

12-JUN-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



12-JUN-18

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

Reference: XENCO Report No(s): **588290**
2RP-3957
Project Address: NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 588290. 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. 588290 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,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer
Project Assistant

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

Certified and approved by numerous States and Agencies.

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

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**Sample Cross Reference 588290****LT Environmental, Inc., Arvada, CO**

2RP-3957

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW9A	S	06-01-18 10:15	5 ft	588290-001
SW15	S	06-01-18 12:00	5 ft	588290-002
SW16	S	06-01-18 12:45	5 ft	588290-003
SW2A	S	06-04-18 09:30	4 ft	588290-004
SW17	S	06-04-18 10:35	5 ft	588290-005
SW1A	S	06-04-18 12:45	5 ft	588290-006
FS5	S	06-04-18 13:30	5 ft	588290-008
SW18	S	06-04-18 13:15	3 ft	Not Analyzed



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: 2RP-3957

Project ID: BEU-039
Work Order Number(s): 588290

Report Date: 12-JUN-18
Date Received: 06/06/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3053169 BTEX by EPA 8021B

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



Certificate of Analysis Summary 588290

LT Environmental, Inc., Arvada, CO

Project Name: 2RP-3957

Project Id: BEU-039
Contact: Adrian Baker
Project Location: NM

Date Received in Lab: Wed Jun-06-18 10:45 am
Report Date: 12-JUN-18
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	588290-001	588290-002	588290-003	588290-004	588290-005	588290-006
	<i>Field Id:</i>	SW9A	SW15	SW16	SW2A	SW17	SW1A
	<i>Depth:</i>	5- ft	5- ft	5- ft	4- ft	5- ft	5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-01-18 10:15	Jun-01-18 12:00	Jun-01-18 12:45	Jun-04-18 09:30	Jun-04-18 10:35	Jun-04-18 12:45
BTEX by EPA 8021B SUB: T104704534-17-3	<i>Extracted:</i>	Jun-08-18 10:20	Jun-07-18 19:20	Jun-07-18 20:30	Jun-07-18 20:50	Jun-07-18 21:00	Jun-07-18 21:20
	<i>Analyzed:</i>	Jun-08-18 10:29	Jun-07-18 19:20	Jun-07-18 20:33	Jun-07-18 20:51	Jun-07-18 21:09	Jun-07-18 21:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00399 0.00399	<0.00395 0.00395	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Inorganic Anions by EPA 300	<i>Extracted:</i>	Jun-08-18 12:15	Jun-08-18 12:15	Jun-08-18 12:15	Jun-08-18 12:15	Jun-08-18 12:15	Jun-08-18 12:15
	<i>Analyzed:</i>	Jun-08-18 22:49	Jun-08-18 22:54	Jun-08-18 23:11	Jun-08-18 23:16	Jun-08-18 23:21	Jun-08-18 23:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		130 24.8	323 25.0	191 25.0	330 25.0	297 25.0	323 25.0
TPH by SW8015 Mod	<i>Extracted:</i>	Jun-06-18 16:00	Jun-06-18 16:00	Jun-06-18 16:00	Jun-06-18 16:00	Jun-06-18 16:00	Jun-06-18 16:00
	<i>Analyzed:</i>	Jun-06-18 18:57	Jun-06-18 19:59	Jun-06-18 20:19	Jun-06-18 20:40	Jun-06-18 21:00	Jun-06-18 21:21
	<i>Units/RL:</i>	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	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0

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

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 588290

LT Environmental, Inc., Arvada, CO

Project Name: 2RP-3957

Project Id: BEU-039
Contact: Adrian Baker
Project Location: NM

Date Received in Lab: Wed Jun-06-18 10:45 am
Report Date: 12-JUN-18
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	588290-008					
	Field Id:	FS5					
	Depth:	5- ft					
	Matrix:	SOIL					
	Sampled:	Jun-04-18 13:30					
BTEX by EPA 8021B SUB: T104704534-17-3	Extracted:	Jun-08-18 10:40					
	Analyzed:	Jun-08-18 10:48					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Inorganic Anions by EPA 300	Extracted:	Jun-08-18 12:15					
	Analyzed:	Jun-08-18 23:32					
	Units/RL:	mg/kg RL					
Chloride		281 25.0					
TPH by SW8015 Mod	Extracted:	Jun-06-18 16:00					
	Analyzed:	Jun-06-18 21:41					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0					
Diesel Range Organics (DRO)		<15.0 15.0					
Oil Range Hydrocarbons (ORO)		<15.0 15.0					
Total TPH		<15.0 15.0					

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Jessica Kramer
Project Assistant



Certificate of Analytical Results 588290

LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW9A**
 Lab Sample Id: 588290-001

Matrix: Soil
 Date Collected: 06.01.18 10.15

Date Received: 06.06.18 10.45
 Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052931

Date Prep: 06.08.18 12.15

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	130	24.8	mg/kg	06.08.18 22.49		5

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052528

Date Prep: 06.06.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.06.18 18.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.06.18 18.57	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.06.18 18.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.06.18 18.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	06.06.18 18.57	
o-Terphenyl	84-15-1	90	%	70-135	06.06.18 18.57	



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW9A**
 Lab Sample Id: 588290-001

Matrix: Soil
 Date Collected: 06.01.18 10.15

Date Received: 06.06.18 10.45
 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: FOV

% Moisture:

Analyst: FOV

Date Prep: 06.08.18 10.20

Basis: Wet Weight

Seq Number: 3053169

SUB: T104704534-17-3

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.08.18 10.29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.08.18 10.29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.08.18 10.29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.08.18 10.29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.08.18 10.29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.08.18 10.29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.08.18 10.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	80	%	80-120	06.08.18 10.29		
1,4-Difluorobenzene	540-36-3	87	%	80-120	06.08.18 10.29		



Certificate of Analytical Results 588290

LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW15** Matrix: Soil Date Received: 06.06.18 10.45
 Lab Sample Id: 588290-002 Date Collected: 06.01.18 12.00 Sample Depth: 5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: SCM % Moisture:
 Analyst: SCM Date Prep: 06.08.18 12.15 Basis: Wet Weight
 Seq Number: 3052931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	323	25.0	mg/kg	06.08.18 22.54		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 06.06.18 16.00 Basis: Wet Weight
 Seq Number: 3052528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.06.18 19.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.06.18 19.59	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.06.18 19.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.06.18 19.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	06.06.18 19.59	
o-Terphenyl	84-15-1	95	%	70-135	06.06.18 19.59	



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW15**
 Lab Sample Id: 588290-002

Matrix: Soil
 Date Collected: 06.01.18 12.00

Date Received: 06.06.18 10.45
 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: FOV

% Moisture:

Analyst: FOV

Date Prep: 06.07.18 19.20

Basis: Wet Weight

Seq Number: 3053169

SUB: T104704534-17-3

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.07.18 19.20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.07.18 19.20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.07.18 19.20	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.07.18 19.20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.07.18 19.20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.07.18 19.20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.07.18 19.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	80-120	06.07.18 19.20		
1,4-Difluorobenzene	540-36-3	88	%	80-120	06.07.18 19.20		



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW16**
 Lab Sample Id: 588290-003

Matrix: Soil
 Date Collected: 06.01.18 12.45

Date Received: 06.06.18 10.45
 Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052931

Date Prep: 06.08.18 12.15

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	191	25.0	mg/kg	06.08.18 23.11		5

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052528

Date Prep: 06.06.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.06.18 20.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.06.18 20.19	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	06.06.18 20.19	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.06.18 20.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	06.06.18 20.19	
o-Terphenyl	84-15-1	96	%	70-135	06.06.18 20.19	



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW16**
 Lab Sample Id: 588290-003

Matrix: Soil
 Date Collected: 06.01.18 12.45

Date Received: 06.06.18 10.45
 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: FOV

% Moisture:

Analyst: FOV

Date Prep: 06.07.18 20.30

Basis: Wet Weight

Seq Number: 3053169

SUB: T104704534-17-3

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.07.18 20.33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.07.18 20.33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.07.18 20.33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.07.18 20.33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.07.18 20.33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.07.18 20.33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.07.18 20.33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	80-120	06.07.18 20.33		
1,4-Difluorobenzene	540-36-3	81	%	80-120	06.07.18 20.33		



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW2A**
 Lab Sample Id: 588290-004

Matrix: Soil
 Date Collected: 06.04.18 09.30

Date Received: 06.06.18 10.45
 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.08.18 12.15

Basis: Wet Weight

Seq Number: 3052931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	330	25.0	mg/kg	06.08.18 23.16		5

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.06.18 16.00

Basis: Wet Weight

Seq Number: 3052528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.06.18 20.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.06.18 20.40	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.06.18 20.40	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.06.18 20.40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	06.06.18 20.40		
o-Terphenyl	84-15-1	87	%	70-135	06.06.18 20.40		



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW2A**
 Lab Sample Id: 588290-004

Matrix: Soil
 Date Collected: 06.04.18 09.30

Date Received: 06.06.18 10.45
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: FOV

% Moisture:

Analyst: FOV

Date Prep: 06.07.18 20.50

Basis: Wet Weight

Seq Number: 3053169

SUB: T104704534-17-3

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.07.18 20.51	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.07.18 20.51	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.07.18 20.51	U	1
m,p-Xylenes	179601-23-1	<0.00395	0.00395	mg/kg	06.07.18 20.51	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.07.18 20.51	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.07.18 20.51	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.07.18 20.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	80-120	06.07.18 20.51		
1,4-Difluorobenzene	540-36-3	81	%	80-120	06.07.18 20.51		



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW17**
Lab Sample Id: 588290-005

Matrix: Soil
Date Collected: 06.04.18 10.35

Date Received: 06.06.18 10.45
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052931

Date Prep: 06.08.18 12.15

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	297	25.0	mg/kg	06.08.18 23.21		5

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052528

Date Prep: 06.06.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.06.18 21.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.06.18 21.00	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.06.18 21.00	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.06.18 21.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	06.06.18 21.00	
o-Terphenyl	84-15-1	92	%	70-135	06.06.18 21.00	



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW17**
 Lab Sample Id: 588290-005

Matrix: Soil
 Date Collected: 06.04.18 10.35

Date Received: 06.06.18 10.45
 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: FOV

% Moisture:

Analyst: FOV

Date Prep: 06.07.18 21.00

Basis: Wet Weight

Seq Number: 3053169

SUB: T104704534-17-3

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.07.18 21.09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.07.18 21.09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.07.18 21.09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.07.18 21.09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.07.18 21.09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.07.18 21.09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.07.18 21.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	80-120	06.07.18 21.09		
1,4-Difluorobenzene	540-36-3	85	%	80-120	06.07.18 21.09		



Certificate of Analytical Results 588290

LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW1A**
 Lab Sample Id: 588290-006

Matrix: Soil
 Date Collected: 06.04.18 12.45

Date Received: 06.06.18 10.45
 Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3052931

Prep Method: E300P

% Moisture:

Date Prep: 06.08.18 12.15

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	323	25.0	mg/kg	06.08.18 23.27		5

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3052528

Prep Method: TX1005P

% Moisture:

Date Prep: 06.06.18 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.06.18 21.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.06.18 21.21	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.06.18 21.21	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.06.18 21.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	06.06.18 21.21	
o-Terphenyl	84-15-1	87	%	70-135	06.06.18 21.21	



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: **SW1A**
 Lab Sample Id: 588290-006

Matrix: Soil
 Date Collected: 06.04.18 12.45

Date Received: 06.06.18 10.45
 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: FOV

% Moisture:

Analyst: FOV

Date Prep: 06.07.18 21.20

Basis: Wet Weight

Seq Number: 3053169

SUB: T104704534-17-3

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.07.18 21.28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.07.18 21.28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.07.18 21.28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.07.18 21.28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.07.18 21.28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.07.18 21.28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.07.18 21.28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	80-120	06.07.18 21.28		
1,4-Difluorobenzene	540-36-3	82	%	80-120	06.07.18 21.28		



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: FS5
Lab Sample Id: 588290-008

Matrix: Soil
Date Collected: 06.04.18 13.30

Date Received: 06.06.18 10.45
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.08.18 12.15

Basis: Wet Weight

Seq Number: 3052931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	281	25.0	mg/kg	06.08.18 23.32		5

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.06.18 16.00

Basis: Wet Weight

Seq Number: 3052528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.06.18 21.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.06.18 21.41	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.06.18 21.41	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.06.18 21.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	06.06.18 21.41	
o-Terphenyl	84-15-1	89	%	70-135	06.06.18 21.41	



Certificate of Analytical Results 588290



LT Environmental, Inc., Arvada, CO

2RP-3957

Sample Id: FS5
Lab Sample Id: 588290-008

Matrix: Soil
Date Collected: 06.04.18 13.30

Date Received: 06.06.18 10.45
Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: FOV

% Moisture:

Analyst: FOV

Date Prep: 06.08.18 10.40

Basis: Wet Weight

Seq Number: 3053169

SUB: T104704534-17-3

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.18 10.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.18 10.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.18 10.48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.08.18 10.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.18 10.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.18 10.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.18 10.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	84	%	80-120	06.08.18 10.48		
4-Bromofluorobenzene	460-00-4	81	%	80-120	06.08.18 10.48		



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



LT Environmental, Inc.

2RP-3957

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052931

MB Sample Id: 7656290-1-BLK

Matrix: Solid

LCS Sample Id: 7656290-1-BKS

Prep Method: E300P

Date Prep: 06.08.18

LCSD Sample Id: 7656290-1-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	265	106	265	106	90-110	0	20	mg/kg	06.08.18 21:06	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052931

Parent Sample Id: 588263-060

Matrix: Soil

MS Sample Id: 588263-060 S

Prep Method: E300P

Date Prep: 06.08.18

MSD Sample Id: 588263-060 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	440	248	675	95	679	96	90-110	1	20	mg/kg	06.08.18 21:23	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052931

Parent Sample Id: 588263-069

Matrix: Soil

MS Sample Id: 588263-069 S

Prep Method: E300P

Date Prep: 06.08.18

MSD Sample Id: 588263-069 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.5	249	282	108	281	108	90-110	0	20	mg/kg	06.08.18 22:38	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3052528

MB Sample Id: 7656149-1-BLK

Matrix: Solid

LCS Sample Id: 7656149-1-BKS

Prep Method: TX1005P

Date Prep: 06.06.18

LCSD Sample Id: 7656149-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	934	93	1090	109	70-135	15	20	mg/kg	06.06.18 18:16	
Diesel Range Organics (DRO)	<15.0	1000	994	99	1120	112	70-135	12	20	mg/kg	06.06.18 18:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		122		127		70-135	%	06.06.18 18:16
o-Terphenyl	108		116		129		70-135	%	06.06.18 18:16

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. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

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



LT Environmental, Inc.

2RP-3957

Analytical Method: TPH by SW8015 Mod

Seq Number: 3052528

Parent Sample Id: 588290-001

Matrix: Soil

MS Sample Id: 588290-001 S

Prep Method: TX1005P

Date Prep: 06.06.18

MSD Sample Id: 588290-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	880	88	876	88	70-135	0	20	mg/kg	06.06.18 19:18	
Diesel Range Organics (DRO)	<15.0	1000	943	94	933	93	70-135	1	20	mg/kg	06.06.18 19:18	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		105		70-135	%	06.06.18 19:18
o-Terphenyl	94		93		70-135	%	06.06.18 19:18

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053169

MB Sample Id: 7656514-1-BLK

Matrix: Solid

LCS Sample Id: 7656514-1-BKS

Prep Method: SW5030B

Date Prep: 06.07.18

LCSD Sample Id: 7656514-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0867	87	0.0910	91	70-130	5	35	mg/kg	06.07.18 14:04	
Toluene	<0.00199	0.0994	0.0925	93	0.0969	97	70-130	5	35	mg/kg	06.07.18 14:04	
Ethylbenzene	<0.00199	0.0994	0.0929	93	0.0989	99	71-129	6	35	mg/kg	06.07.18 14:04	
m,p-Xylenes	<0.00398	0.199	0.199	100	0.216	108	70-135	8	35	mg/kg	06.07.18 14:04	
o-Xylene	<0.00199	0.0994	0.0946	95	0.108	108	71-133	13	35	mg/kg	06.07.18 14:04	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	80		100		103		80-120	%	06.07.18 14:04
4-Bromofluorobenzene	84		80		91		80-120	%	06.07.18 14:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053169

Parent Sample Id: 588293-001

Matrix: Soil

MS Sample Id: 588293-001 S

Prep Method: SW5030B

Date Prep: 06.07.18

MSD Sample Id: 588293-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0855	86	0.0881	89	70-130	3	35	mg/kg	06.07.18 16:09	
Toluene	<0.00199	0.0996	0.0922	93	0.0952	96	70-130	3	35	mg/kg	06.07.18 16:09	
Ethylbenzene	<0.00199	0.0996	0.0970	97	0.0994	100	71-129	2	35	mg/kg	06.07.18 16:09	
m,p-Xylenes	<0.00398	0.199	0.211	106	0.215	109	70-135	2	35	mg/kg	06.07.18 16:09	
o-Xylene	<0.00199	0.0996	0.106	106	0.112	113	71-133	6	35	mg/kg	06.07.18 16:09	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		80-120	%	06.07.18 16:09
4-Bromofluorobenzene	104		116		80-120	%	06.07.18 16:09

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

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

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

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

CHAIN OF CUSTODY

Page 1 of 1

San Antonio, Texas (210-508-3324)
Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

www.xenco.com

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes																																																																																																																
Company Name / Branch: <u>U Hav. Environmental, Inc. Permian Office</u>				Project Name/Number: <u>BEU-039</u>																																																																																																																								
Company Address: <u>3300 North 4th St. Building Unit #103 Midland TX 79705</u>				Project Location: <u>NM 2EP-3957</u>																																																																																																																								
Email: <u>abaker@xenco.com (432) 704-5178</u>				Invoice To: <u>XTO Energy - Kyle Littlell</u>																																																																																																																								
Project Contact: <u>Adrian Baker</u>				PO Number:																																																																																																																								
Sampler's Name: <u>Adrian Baker</u>																																																																																																																												
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	None	Notes	Field Comments																																																																																																												
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5	SW17	5'		12:35	S	1																																																																																																																						
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Inter-Office Shipment

Page 1 of 1

IOS Number **108390**

Date/Time: 06/06/18 12:17

Created by: Shawnee Smith

Please send report to: Jessica Kramer

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave, Midland TX 79701

Lab# To: **San Antonio**

Air Bill No.:

Phone:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
588290-001	S	SW9A	06/01/18 10:15	SW8021B	BTEX by EPA 8021B	06/12/18	06/15/18	JKR	BR4FBZ BZ BZME EBZ X	
588290-002	S	SW15	06/01/18 12:00	SW8021B	BTEX by EPA 8021B	06/12/18	06/15/18	JKR	BR4FBZ BZ BZME EBZ X	
588290-003	S	SW16	06/01/18 12:45	SW8021B	BTEX by EPA 8021B	06/12/18	06/15/18	JKR	BR4FBZ BZ BZME EBZ X	
588290-004	S	SW2A	06/04/18 09:30	SW8021B	BTEX by EPA 8021B	06/12/18	06/18/18	JKR	BR4FBZ BZ BZME EBZ X	
588290-005	S	SW17	06/04/18 10:35	SW8021B	BTEX by EPA 8021B	06/12/18	06/18/18	JKR	BR4FBZ BZ BZME EBZ X	
588290-006	S	SW1A	06/04/18 12:45	SW8021B	BTEX by EPA 8021B	06/12/18	06/18/18	JKR	BR4FBZ BZ BZME EBZ X	
588290-007	S	SW18	06/04/18 13:15	SW8021B	BTEX by EPA 8021B	HOLD	06/18/18	JKR	BR4FBZ BZ BZME EBZ X	
588290-008	S	FS5	06/04/18 13:30	SW8021B	BTEX by EPA 8021B	06/12/18	06/18/18	JKR	BR4FBZ BZ BZME EBZ X	

Inter Office Shipment or Sample Comments:

Relinquished By

Shawnee Smith

Received By:

Felipe Ovalle

Date Relinquished: 06/06/2018

Date Received: 06/07/2018 09:48

Cooler Temperature: 1.9



XENCO Laboratories



Inter Office Report- Sample Receipt Checklist

Sent To: San Antonio

IOS #: 108390

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : SAT4 CF:-0.1

Sent By: Shawnee Smith

Date Sent: 06/06/2018 12:17 PM

Received By: Felipe Ovalle

Date Received: 06/07/2018 09:48 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.9	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received with appropriate temperature?	Yes	Initial Temp: 2.0 CF:-0.1 Final Temp: 1.9
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 *Custody Seals Signed and dated for Containers/coolers	Yes	
#6 *IOS present?	Yes	
#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:

Felipe Ovalle

Date: 06/07/2018



Client: LT Environmental, Inc.

Date/ Time Received: 06/06/2018 10:45:00 AM

Work Order #: 588290

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)?	5.8	
#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?	Yes	Missing sample 007 (SW18)
#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	San Antonio
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Smith

Date: 06/06/2018

Checklist reviewed by:

Jessica Kramer

Date: 06/06/2018

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

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

CONDITIONS

Action 197775

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 197775
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	3/16/2023