

May 10, 2019

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

RE: Closure Request Poker Lake Unit Ross Ranch 33-25-30 USA Battery Remediation Permit Number 2RP-4669 Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following report detailing excavation of impacted soil and confirmation soil sampling activities at the Poker Lake Unit Ross Ranch 33-25-30 USA Battery (Site) in Unit D, Section 33, Township 25 South, Range 30 East in Eddy County, New Mexico (Figure 1). The purpose of the excavation and soil sampling activities was to address impacts to soil after a produced water release at the Site.

On March 8, 2018, a produced water flow line within the lined process equipment containment developed a corrosion hole. Approximately 10 barrels (bbls) of produced water were released within the impermeable lined containment and approximately 3 gallons of produced water misted onto the caliche pad west of the containment. A vacuum truck was dispatched to the Site to recover the free-standing fluid within the lined containment; approximately 10 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on March 21, 2018, and was assigned Remediation Permit (RP) Number 2RP-4669 (Attachment 1).

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement is to ensure that reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018. The release is categorized as a Tier III site in the Compliance Agreement, meaning remediation of the release began prior to August 14, 2018, the effective date of 19.15.29 NMAC, however remediation was ongoing. Based on the excavation activities and results of the soil sampling events, XTO is submitting this closure report and requesting no further action for this release event.





Billings, B. Page 2

BACKGROUND

According to Section 12 of 19.15.29 NMAC, LTE applied the closure criteria in accordance with NMOCD Table 1, Closure Criteria for Soils Impacted by a Release. Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well is New Mexico Office of the State Engineer (OSE) Pod Number POD-1, revised to C-3832-POD 2, located approximately 605 feet north of the Site, with a depth to groundwater of approximately 277 feet bgs. The total depth of the water well is approximately 805 feet bgs. The water well is approximately 1-foot lower in elevation than the Site. Water well C-3832-POD 2 is within 1,000 feet of the Site. The well was originally permitted as an exploratory well (POD 1) to be plugged within 10 days. An application to utilize the exploratory well for use in exploration and development resulted in renumbering the well to POD 2. Although a well log was provided, the conditions granted under the permit indicate no water can be diverted from the well unless a permit to use water is acquired. Therefore, XTO does not consider the well a freshwater well. The closest continuously flowing water or significant watercourse to the Site is wash located approximately 2,820 feet north-northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a low karst area. Based on these criteria, the following NMOCD Table 1 closure criteria were applied: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 1,000 mg/kg total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO); 2,500 mg/kg TPH; and 20,000 mg/kg chloride.

EXCAVATION SOIL SAMPLING

On April 26, 2019, an LTE scientist was on-site to oversee excavation of impacted soil in the misted release area west of the containment, as indicated by visual surface staining and the documented release area. To delineate impacts to soil and direct excavation activities, LTE screened soil using a photo-ionization detector (PID) and Hach® chloride QuanTab® test strips. Impacted soil was excavated from the release area to a depth of 1.5 feet bgs. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis, and immediately placed on ice. The samples were shipped to Xenco Laboratories (Xenco) in Midland, Texas, at 4 degrees Celsius (°C) under strict chain-of-custody procedures for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-oil range





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organics (ORO) by EPA Method 8015 Modified, and chloride by EPA Method 300.0. The excavation soil sample locations and depths are presented on Figure 2.

The excavation measured approximately 240 square feet in area and was completed to a depth of 1.5 feet bgs. Composite soil sample FS01 was collected from the floor of the excavation from a depth of 1.5 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation from depths ranging from 0 feet to 1.5 feet bgs. The excavation soil sample locations and the horizontal extent of the excavation is presented on Figure 2. A total of approximately 15 cubic yards of impacted soil were removed from the excavation. The impacted soil will be transported and properly disposed of at Lea Land landfill facility in Hobbs, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results indicated that the excavation floor and sidewall samples collected from the final excavation extent were compliant with the NMOCD Table 1 closure criteria for BTEX, GRO/DRO, TPH, and chloride. Based on the laboratory analytical results, no further excavation was required. Laboratory analytical results are presented on Figure 2 and summarized in Table 1, and the laboratory analytical report is included in Attachment 2.

CONCLUSIONS

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





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

Sincerely,

LT ENVIRONMENTAL, INC.

Ashley L. ager

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO Jim Amos, U.S. Bureau of Land Management Crystal Weaver, U.S. Bureau of Land Management Mike Bratcher, NMOCD Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:

- Figure 1 Site Location Map
- Figure 2 Excavation Soil Sample Locations
- Table 1 Soil Analytical Results

Attachment 1 Initial/Final NMOCD Form C-141 (2RP-4669)

- Attachment 2 Laboratory Analytical Reports
- Attachment 3 Photographic Log



FIGURES





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P:\XTO Energy\GIS\MXD\012917041_PLU ROSS RANCH_33-25-30 TB\012917041_FIG01_SL_2019.mxd



TABLES

<u>I</u>Z

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TABLE 1 SOIL ANALYTICAL RESULTS

POKER LAKE UNIT ROSS RANCH 33-25-30 USA BATTERY REMEDIATION PERMIT NUMBER 2RP-4669 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl- benzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | ORO (mg/kg) | Total GRO + DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|----------------|-------------------------------|----------------|--------------------|--------------------|------------------------------|-----------------------------|--------------------------|----------------|----------------|----------------|-------------------------------|----------------|---------------------|
| FS01 | 1.5 | 4/26/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <14.9 | 15.0 | <14.9 | 15.0 | 15.0 | 115 |
| SW01 | 0 - 1.5 | 4/26/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | 30.3 | <15.0 | 30.3 | 30.3 | 83.4 |
| SW02 | 0 - 1.5 | 4/26/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 184 |
| NMOCD Table | e 1 Closure Crit | eria | 10 | NE | NE | NE | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

MRO - motor oil range organics NMAC - New Mexico Administrative Code NMOCD - New Mexico Oil Conservation Division

mg/kg - milligrams per kilogram

< - indicates result is below laboratory reporting limits

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

NE - not established

TPH - total petroleum hydrocarbons





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| District III Energy N Bill S. First St., Artesia, NM 88210 District III OOI 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Release Notif | Ainerals Conse 20 Sout Santa F | rvation Di h St. Franc e, NM 87: | tico al Resources vision cis Dr. 505 | ARTE MA R | ESTA DIST R 21 21 Smit 1 Copy BCEIVE | 118 to appropria cordance wi | hanta a | Form C-141 August 8, 2011 trict Office in 5.29 NMAC. |
|--|---|---|--|--|---|---|--|---|
| NAB1808241369 (BOPCO) | | OPERA | TOR | | 🖾 Initi | al Report | | Final Report |
| Name of Company: XTO Energy | 2 | Contact: Ky | A DESCRIPTION OF A DESC | _ | | | | |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 882 Facility Name: PLU Ross Ranch 33-25-30 USA Battery | | | No. 432-221-733 be: Exploration : | | duction | | | |
| for well Poker Lake Unit CVX JV RR #007H) | | racinty ry | A. Exploration | | Junetion | | | |
| Surface Owner: Federal Mineral | Owner: | Federal | | | APING | . 30-015-4 | 0762 | |
| | | N OF RE | FASE | | 1 | | | |
| Unit Letter Section Township Range Feet from the | | South Linc | Fect from the | East/ | West Line | County | |) |
| D 33 25S 30E 330 | North | | 680 | West | | Eddy | | |
| Latitude 32.09 | 2806°_ | _ Longitud | e103.892550 |)° | | | | |
| NA | TURE | OF REL | EASE | | | | | |
| Type of Release Produced water | | Volume of 10.1 BBL | Release | | Volume 10 BBL | Recovered | | |
| Source of Release | | _ | lour of Occurrence | æ | | Hour of Disc | overy | |
| Steel water line Was Immediate Notice Given? | | 3/8/2018 | 11/6 +0 | | 3/8/2018, | 7:30 AM | | |
| Yes No X Not | Required | N/A | wnom | | | | | 1 |
| By Whom? N/A | | Date and H | | | | | | |
| Was a Watercourse Reached? | | If YES, Vo N/A | lume Impacting t | the Wate | ercourse. | | | |
| If a Watercourse was Impacted, Describe Fully.* | | 1 | | | | | | |
| N/A | | | | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* Release was due to corrosion on 4" steel water line. The section Describe Area Affected and Cleanup Action Taken.* | | • | | | | | | |
| Fluid was released into impervious lined containment. Approxim fluid within containment. An environmental contractor has been | | | | | the contain | ment. Vac tri | uck rec | overed all |
| I hereby certify that the information given above is true and com regulations all operators are required to report and/or file certain public health or the environment. The acceptance of a C-141 rep should their operations have failed to adequately investigate and or the environment. In addition, NMOCD acceptance of a C-141 federal, state, or local laws and/or regulations. | release no ort by the remediate | otifications and NMOCD me contamination | d perform correct inked as "Final Re- on that pose a three the operator of r | tive acti eport" d eat to gr responsi | ons for rele oes not reli ound water bility for co | eases which r eve the opera , surface wat ompliance wi | nay cho ator of l er, hun ith any | langer liability nan health |
| nit | | | OIL CONS | SERV | ATION | DIVISIO | Ň | |
| Signature Printed Name: Kyle Littrell | / | Approved by | Environmental Sp | occialist | CMA | Ste V | 5 | |
| Title: EHS Coordinator | | Approval Date | : 3 23 1E | | Expiration | Date: NII | 4 | |
| E-mail Address: Kyle_Littrell@xtoenergy.com | | Conditions of | Approval: | ch | ed | Attached | De la | IIMA |
| Date: 3/21/2018 Phone: 432-221-7331 | | 30 | | | | | MY. | - TUUP |

Attach Additional Sheets If Necessary

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

State of New Mexico Energy Minerals and Natural Resources Department

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

| Incident ID | |
|----------------|----------|
| District RP | 2RP-4669 |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.092806_

[NAD 83 in decimal degrees to 5 decimal places]

| Site Name PLU Ross Ranch 33-25-30 USA Battery | Site Type Exploration and Production |
|---|---|
| Date Release Discovered 3/8/2018 | API# (if applicable) 30-015-40762 (API for well Poker Lake Unit |
| | CVX JV RR #007H |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| D | 33 | 258 | 30E | Eddy |

Surface Owner: State Federal Tribal Private (Name: BLM_

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) 10.1 Volume Recovered (bbls) 10 Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)

Cause of Release

Release was due to corrosion on 4" steel water line. The section of line was replaced. Fluid was released into impervious lined containment. Approximately 3 gallons of water misted the pad outside of the containment. A vacuum truck recovered all the fluid within the containment.

Form C-141

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| State of New Mexico |
|---------------------------|
| Oil Conservation Division |

| j | Incident ID | |
|---|----------------|----------|
| | District RP | 2RP-4669 |
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| Ì | Application ID | |

| Was this a major release as defined by 19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release? N/A |
|--|---|
| 🗌 Yes 🖾 No | |
| | |
| If YES, was immediate no N/A | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

| Printed Name: | _Kyle Littrell | .1 | Title: _SH& | E Supervisor | |
|--------------------|------------------|----------|--------------|--------------|--|
| Signature: | Jatur | <u>g</u> | Date: _5/10/ | /2019 | |
| email: Kyle Littre | ll@xtoenergy.com | | Telephone: | 432-221-7331 | |
| | | | | | |
| OCD Only | | | | | |
| Received by: | | | Date: | | |

Form C-141

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State of New Mexico Oil Conservation Division

| Incident ID | | |
|----------------|----------|--|
| District RP | 2RP-4669 | |
| Facility ID | | |
| Application ID | | |

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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| ceived by OCD: 3/7/2023 | 8 1:54:55 PM | | | Page 15 of |
|--|--|--|---|---|
| Form C-141 | State of New Mexico |) | Incident ID | 1 |
| Page 4 | Oil Conservation Divis | ion | District RP | 2RP-4669 |
| | | | Facility ID | 210 4007 |
| | | | Application ID | |
| public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: | e required to report and/or file certain releas ment. The acceptance of a C-141 report by gate and remediate contamination that pose of a C-141 report does not relieve the operation Kyle Littrell trell@xtoenergy.com | the OCD does not relieve th a threat to groundwater, surf tor of responsibility for comp Title:SH&E Date:5/10/20 | e operator of liability sh ace water, human health liance with any other fe Supervisor | ould their operations have or the environment. In deral, state, or local laws |
| | | Date: | | |

Form C-141

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| Incident ID | |
|----------------|----------|
| District RP | 2RP-4669 |
| Facility ID | |
| Application ID | |

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

| Printed Name: Kyle Littrell | Title: <u>SH&E S</u> | upervisor |
|---|--------------------------------------|---|
| Signature: Contact | Date:5/10/2019 | |
| email: | Telephone:432-221-7. | 31 |
| | | |
| OCD Only | | |
| | | |
| Received by: | Date: | |
| Closure approval by the OCD does not relieve the responsible pa remediate contamination that poses a threat to groundwater, surfa party of compliance with any other federal, state, or local laws an | e water, human health, or the enviro | s have failed to adequately investigate and nment nor does not relieve the responsible |
| Closure Approved by: | Date: | |
| Printed Name: | Title: | |



Analytical Report 622953

for LT Environmental, Inc.

Project Manager: Ashley Ager

PLU RR 33-25-30

03-MAY-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429), North Carolina (483)



03-MAY-19

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

Reference: XENCO Report No(s): 622953 PLU RR 33-25-30 Project Address: Delaware Basin

Ashley Ager:

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) 622953. 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. 622953 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,

Jession Vermer

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 622953



LT Environmental, Inc., Arvada, CO

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| FS01 | S | 04-26-19 12:50 | 1.5 ft | 622953-001 |
| SW01 | S | 04-26-19 13:00 | 0 - 1.5 ft | 622953-002 |
| SW02 | S | 04-26-19 13:05 | 0 - 1.5 ft | 622953-003 |



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU RR 33-25-30

Project ID: Work Order Number(s): 622953 Report Date: 03-MAY-19 Date Received: 05/02/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3087778 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:Contact:Ashley AgerProject Location:Delaware Basin

Certificate of Analysis Summary 622953

LT Environmental, Inc., Arvada, CO Project Name: PLU RR 33-25-30



Date Received in Lab:Thu May-02-19 11:05 amReport Date:03-MAY-19Project Manager:Jessica Kramer

| | Lab Id: | 622953-0 | 001 | 622953-0 | 002 | 622953-0 | 003 | | |
|------------------------------------|------------|-----------|---------|-----------|---------|-----------|---------|--|--|
| Analysis Beguested | Field Id: | FS01 | | SW01 | | SW02 | ! | | |
| Analysis Requested | Depth: | 1.5- ft | : | 0-1.5 f | ť | 0-1.5 f | ť | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | | |
| | Sampled: | Apr-26-19 | 12:50 | Apr-26-19 | 13:00 | Apr-26-19 | 13:05 | | |
| BTEX by EPA 8021B | Extracted: | May-02-19 | 14:00 | May-02-19 | 14:00 | May-02-19 | 14:00 | | |
| | Analyzed: | May-03-19 | 00:57 | May-03-19 | 01:16 | May-03-19 | 01:35 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Benzene | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | < 0.00201 | 0.00201 | | |
| Toluene | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | < 0.00201 | 0.00201 | | |
| Ethylbenzene | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | < 0.00201 | 0.00201 | | |
| m,p-Xylenes | | < 0.00398 | 0.00398 | < 0.00398 | 0.00398 | < 0.00402 | 0.00402 | | |
| o-Xylene | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | < 0.00201 | 0.00201 | | |
| Total Xylenes | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | < 0.00201 | 0.00201 | | |
| Total BTEX | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | < 0.00201 | 0.00201 | | |
| Chloride by EPA 300 | Extracted: | May-02-19 | 14:45 | May-02-19 | 14:45 | May-02-19 | 14:45 | | |
| | Analyzed: | May-02-19 | 15:46 | May-02-19 | 15:52 | May-02-19 | 15:57 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Chloride | | 115 | 5.02 | 83.4 | 4.96 | 184 | 4.98 | | |
| TPH by SW8015 Mod | Extracted: | May-02-19 | 12:00 | May-02-19 | 12:00 | May-02-19 | 12:00 | | |
| | Analyzed: | May-02-19 | 16:08 | May-02-19 | 16:28 | May-02-19 | 16:48 | | |
| | Units/RL: | 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) | | 15.0 | 14.9 | 30.3 | 15.0 | <15.0 | 15.0 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | | |
| Total TPH | | 15.0 | 14.9 | 30.3 | 15.0 | <15.0 | 15.0 | | |
| Total GRO-DRO | | 15.0 | 14.9 | 30.3 | 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 - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

fession kramer

Jessica Kramer Project Assistant

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LT Environmental, Inc., Arvada, CO

PLU RR 33-25-30

| Sample Id: FS01 | | Matrix: | Soil |] | Date Received | 1:05.02.19 11.05 | |
|-----------------------------|--------------|---------------|-------------------|-------|---------------|------------------|-----|
| Lab Sample Id: 622953-001 | | Date Collecte | d: 04.26.19 12.50 | | Sample Depth | :1.5 ft | |
| Analytical Method: Chloride | e by EPA 300 | | |] | Prep Method: | E300P | |
| Tech: SPC | | | | 0 | % Moisture: | | |
| Analyst: SPC | | Date Prep: | 05.02.19 14.45 |] | Basis: | Wet Weight | |
| Seq Number: 3087814 | | | | | | | |
| Parameter | Cas Number | Result F | RL . | Units | Analysis Da | ate Flag | Dil |

| | | | | | · | 0 |
|----------|------------|-----|------|-------|----------------|---|
| Chloride | 16887-00-6 | 115 | 5.02 | mg/kg | 05.02.19 15.46 | |

| Analytical Method:TPH by SW80Tech:ARMAnalyst:ARMSeq Number:3087797 | 15 Mod | Date Prep | o: 05.02. | 19 12.00 | 9 | Prep Method: TX 6 Moisture: Basis: We | 1005P et Weight | |
|--|------------|------------|---------------|----------|--------|---|--------------------|-----|
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | | mg/kg | 05.02.19 16.08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 15.0 | 14.9 | | mg/kg | 05.02.19 16.08 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <14.9 | 14.9 | | mg/kg | 05.02.19 16.08 | U | 1 |
| Total TPH | PHC635 | 15.0 | 14.9 | | mg/kg | 05.02.19 16.08 | | 1 |
| Total GRO-DRO | PHC628 | 15.0 | 14.9 | | mg/kg | 05.02.19 16.08 | | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 102 | % | 70-135 | 05.02.19 16.08 | | |

105

%

70-135

05.02.19 16.08

84-15-1

o-Terphenyl





LT Environmental, Inc., Arvada, CO

| Sample Id: FS01 Lab Sample Id: 622953-001 | Matrix: Soil Date Collected: 04.26.19 12.50 | Date Received:05.02.19 11.05 Sample Depth: 1.5 ft |
|--|--|--|
| Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3087778 | Date Prep: 05.02.19 14.00 | 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 | 05.03.19 00.57 | U | 1 |
| Toluene | 108-88-3 | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 00.57 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 00.57 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 05.03.19 00.57 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 00.57 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 00.57 | U | 1 |
| Total BTEX | | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 00.57 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 100 | % | 70-130 | 05.03.19 00.57 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 97 | % | 70-130 | 05.03.19 00.57 | | |





LT Environmental, Inc., Arvada, CO

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| Chloride | | 16887-00-6 | 83.4 | 4.96 | mg/kg | 05.02.19 15.52 | 2 | 1 |
|--------------|------------------------|------------|------------|----------------------|-------|----------------|---------------|-----|
| Parameter | | Cas Number | Result | RL | Units | Analysis Dat | e Flag | Dil |
| Seq Number: | 3087814 | | | | | | | |
| Analyst: | SPC | | Date Prep: | 05.02.19 14.45 | | Basis: | Wet Weight | |
| Tech: | SPC | | | | | % Moisture: | | |
| Analytical M | ethod: Chloride by EPA | 300 | | | | Prep Method: 1 | E300P | |
| Lab Sample I | d: 622953-002 | | Date Colle | cted: 04.26.19 13.00 | | Sample Depth: | 0 - 1.5 ft | |
| Sample Id: | SW01 | | Matrix: | Soil | | Date Received: | 05.02.19 11.0 | 5 |

| Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3087797 | 5 Mod | Date Prep | o: 05.02. | 19 12.00 | 9 | Prep Method: TX 6 Moisture: Basis: We | 1005P t Weight | |
|---|------------|------------------------------|-----------------------------|------------|-------------------------|---|-------------------|-----|
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | | mg/kg | 05.02.19 16.28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 30.3 | 15.0 | | mg/kg | 05.02.19 16.28 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | | mg/kg | 05.02.19 16.28 | U | 1 |
| Total TPH | PHC635 | 30.3 | 15.0 | | mg/kg | 05.02.19 16.28 | | 1 |
| Total GRO-DRO | PHC628 | 30.3 | 15.0 | | mg/kg | 05.02.19 16.28 | | 1 |
| Surrogate 1-Chlorooctane | 1 | Cas Number 11-85-3 | % Recovery 101 | Units % | Limits 70-135 | Analysis Date 05.02.19 16.28 | Flag | |

84-15-1

104

%

70-135

05.02.19 16.28

o-Terphenyl





LT Environmental, Inc., Arvada, CO

| Sample Id:SW01Lab Sample Id:622953-002 | Matrix: Soil Date Collected: 04.26.19 13.00 | Date Received:05.02.19 11.05 Sample Depth: 0 - 1.5 ft |
|--|--|--|
| Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3087778 | Date Prep: 05.02.19 14.00 | 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 | 05.03.19 01.16 | U | 1 |
| Toluene | 108-88-3 | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 01.16 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 01.16 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 05.03.19 01.16 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 01.16 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 01.16 | U | 1 |
| Total BTEX | | < 0.00199 | 0.00199 | | mg/kg | 05.03.19 01.16 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 96 | % | 70-130 | 05.03.19 01.16 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 99 | % | 70-130 | 05.03.19 01.16 | | |





LT Environmental, Inc., Arvada, CO

| Sample Id: | SW02 | | Matrix: | Soil | | Date Received | 1:05.02.19 11.05 | 5 | |
|---------------|-------------------------|------------|-------------|---------------------|-------|--------------------------|------------------|-----|--|
| Lab Sample Id | : 622953-003 | | Date Collec | ted: 04.26.19 13.05 | | Sample Depth: 0 - 1.5 ft | | | |
| Analytical Me | thod: Chloride by EPA 3 | 00 | | | | Prep Method: | E300P | | |
| Tech: | SPC | | | | | % Moisture: | | | |
| Analyst: | SPC | | Date Prep: | 05.02.19 14.45 | | Basis: | Wet Weight | | |
| Seq Number: | 3087814 | | | | | | | | |
| Parameter | | Cas Number | Result | RL | Units | Analysis D | ate Flag | Dil | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 184 | 4.98 | mg/kg | 05.02.19 15.57 | | 1 |

| Analytical Method: TPH by SW801: Tech: ARM Analyst: ARM Seq Number: 3087797 | 5 Mod | Date Prep: 05.02.19 12.00 | | | F % E | | | |
|--|------------|---------------------------|---------------|-------|-------------|----------------|------|-----|
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | | mg/kg | 05.02.19 16.48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | | mg/kg | 05.02.19 16.48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | | mg/kg | 05.02.19 16.48 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 05.02.19 16.48 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | | mg/kg | 05.02.19 16.48 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 101 | % | 70-135 | 05.02.19 16.48 | | |
| o-Terphenyl | | 84-15-1 | 102 | % | 70-135 | 05.02.19 16.48 | | |





LT Environmental, Inc., Arvada, CO

| Sample Id:SW02Lab Sample Id:622953-003 | Matrix: Soil Date Collected: 04.26.19 13.05 | Date Received:05.02.19 11.05 Sample Depth: 0 - 1.5 ft |
|--|--|--|
| Analytical Method:BTEX by EPA 8021BTech:SCMAnalyst:SCMSeq Number:3087778 | Date Prep: 05.02.19 14.00 | Prep Method: SW5030B % Moisture: Basis: Wet Weight |

| Parameter | Cas Number | Result | RL | RL | | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00201 | 0.00201 | | mg/kg | 05.03.19 01.35 | U | 1 |
| Toluene | 108-88-3 | < 0.00201 | 0.00201 | | mg/kg | 05.03.19 01.35 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00201 | 0.00201 | | mg/kg | 05.03.19 01.35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00402 | 0.00402 | | mg/kg | 05.03.19 01.35 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00201 | 0.00201 | | mg/kg | 05.03.19 01.35 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00201 | 0.00201 | | mg/kg | 05.03.19 01.35 | U | 1 |
| Total BTEX | | < 0.00201 | 0.00201 | | mg/kg | 05.03.19 01.35 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 94 | % | 70-130 | 05.03.19 01.35 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 92 | % | 70-130 | 05.03.19 01.35 | | |



Flagging Criteria



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- 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 LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

| SMP Clie | ent Sample | BLK | Method Blank | |
|----------|---|-----------|----------------------------|---------------------------------|
| BKS/LCS | S Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labo | ratory 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. PLU RR 33-25-30

| Seq Number: | Chloride by EPA 3 3087814 | 00 | | Matrix: | | 1 DV0 | | Prep Method: E300P Date Prep: 05.02.19 | |
|-----------------------------------|-----------------------------------|-----------------|---------------|-------------|----------------|--------------|--------|---|------|
| MB Sample Id: | 7677036-1-BLK | ~ * | LCS Sa | • | | | | LCSD Sample Id: 7677036-1-BSD | |
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD RPD Limit Units Analysis Date | Flag |
| Chloride | <0.858 | 250 | 241 | 96 | 242 | 97 | 90-110 | 0 20 mg/kg 05.02.19 11:12 | 2 |
| Analytical Method: | • | 00 | | | | | | Prep Method: E300P | |
| Seq Number: | 3087814 | | | Matrix: | | 01.0 | | Date Prep: 05.02.19 | |
| Parent Sample Id: | 622952-001 | | | • | 622952-0 | 01 S | | MSD Sample Id: 622952-001 SD | |
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD RPD Limit Units Analysis Date | Flag |
| Chloride | 233 | 252 | 504 | 108 | 508 | 109 | 90-110 | 1 20 mg/kg 05.02.19 15:10 | 5 |
| Analytical Method: Seq Number: | Chloride by EPA 3 3087814 | 00 | | Matrix: | Soil | | | Prep Method: E300P Date Prep: 05.02.19 | |
| Parent Sample Id: | 622954-004 | | MS Sa | mple Id: | 622954-0 | 04 S | | MSD Sample Id: 622954-004 SD | |
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD RPD Limit Units Analysis Date | Flag |
| Chloride | 1830 | 250 | 1980 | 60 | 1990 | 64 | 90-110 | 1 20 mg/kg 05.02.19 16:3: | 3 X |
| Analytical Method: Seq Number: | TPH by SW8015 M 3087797 | lod | | Matrix: | Solid | | | Prep Method: TX1005P Date Prep: 05.02.19 | |
| MB Sample Id: | 7677065-1-BLK | | LCS Sat | mple Id: | 7677065- | 1-BKS | | LCSD Sample Id: 7677065-1-BSD | |
| Parameter | MB | Spike | LCS | LCS | LCSD | LCSD | Limits | %RPD RPD Limit Units Analysis | Flag |

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPI |) RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|-------------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <8.00 | 1000 | 977 | 98 | 997 | 100 | 70-135 | 2 | 20 | mg/kg | 05.02.19 13:27 | |
| Diesel Range Organics (DRO) | <8.13 | 1000 | 989 | 99 | 1020 | 102 | 70-135 | 3 | 20 | mg/kg | 05.02.19 13:27 | |
| Surrogate | MB %Rec | MB Flag | L0 %I | | .CS Tlag | LCSI %Re | | | Limits | Units | Analysis Date | |
| 1-Chlorooctane | 101 | | 12 | 25 | | 130 | | , | 70-135 | % | 05.02.19 13:27 | |
| o-Terphenyl | 103 | | 10 | 08 | | 106 | | , | 70-135 | % | 05.02.19 13:27 | |

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

[D] = 100*(C-A) / B $\begin{aligned} \text{RPD} &= 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ \text{[D]} &= 100^* (\text{C}) / \text{[B]} \end{aligned}$ 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



BORATORIES



LT Environmental, Inc. PLU RR 33-25-30

| Analytical Method: | Analytical Method: TPH by SW8015 Mod | | | | | | | |] | Prep Method | l: TX | 1005P | |
|------------------------------|--------------------------------------|------------------|-----------------|----------------------------|------------|---------------|------------------------------|--------|------|-------------|---------|------------------|------|
| Seq Number: | 3087797 | | | | Matrix: | Soil | | | | Date Prep | o: 05.0 | 02.19 | |
| Parent Sample Id: 622952-001 | | | | MS Sample Id: 622952-001 S | | | MSD Sample Id: 622952-001 SD | | | | | | |
| Parameter | | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPI | ORPD Limit | Units | Analysis Date | Flag |
| Gasoline Range Hydrocarbo | ons (GRO) | 3140 | 999 | 984 | 0 | 1010 | 0 | 70-135 | 3 | 20 | mg/kg | 05.02.19 14:28 | Х |
| Diesel Range Organics (I | DRO) | 9120 | 999 | 1010 | 0 | 1040 | 0 | 70-135 | 3 | 20 | mg/kg | 05.02.19 14:28 | Х |
| Surrogate | | | | | AS Rec | MS Flag | MSD %Ree | | - | Limits | Units | Analysis Date | |
| 1-Chlorooctane | | | | 1 | 23 | | 125 | | - | 70-135 | % | 05.02.19 14:28 | |
| o-Terphenyl | | | | 1 | 04 | | 101 | | - | 70-135 | % | 05.02.19 14:28 | |

| Analytical Method: Seq Number: MB Sample Id: | BTEX by EPA 802 3087778 7677039-1-BLK | 1B | Matrix:SolidPrep Method:mple Id:7677039-1-BKSLCSD Sample Id: | | | | | p: 05.0 | SW5030B 05.02.19 7677039-1-BSD | | | |
|---|--|-----------------|--|-------------|----------------|--------------|--------|---------|--------------------------------------|-------|------------------|------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPI |) RPD Limit | Units | Analysis Date | Flag |
| Benzene | < 0.000388 | 0.101 | 0.109 | 108 | 0.103 | 103 | 70-130 | 6 | 35 | mg/kg | 05.02.19 23:04 | |
| Toluene | < 0.000459 | 0.101 | 0.103 | 102 | 0.0957 | 96 | 70-130 | 7 | 35 | mg/kg | 05.02.19 23:04 | |
| Ethylbenzene | < 0.000569 | 0.101 | 0.108 | 107 | 0.0990 | 99 | 70-130 | 9 | 35 | mg/kg | 05.02.19 23:04 | |
| m,p-Xylenes | < 0.00102 | 0.202 | 0.225 | 111 | 0.208 | 104 | 70-130 | 8 | 35 | mg/kg | 05.02.19 23:04 | |
| o-Xylene | < 0.000347 | 0.101 | 0.110 | 109 | 0.104 | 104 | 70-130 | 6 | 35 | mg/kg | 05.02.19 23:04 | |
| Surrogate | MB %Rec | MB Flag | | CS Rec | LCS Flag | LCSD %Rec | | | Limits | Units | Analysis Date | |
| 1,4-Difluorobenzene | 91 | | 1 | 00 | | 102 | | | 70-130 | % | 05.02.19 23:04 | |
| 4-Bromofluorobenzene | 84 | | ç | 92 | | 100 | | | 70-130 | % | 05.02.19 23:04 | |

| Analytical Method: Seq Number: Parent Sample Id: | BTEX by EPA 802 3087778 622953-001 | 1B | MS San | Matrix: nple Id: | | 01 S | | | Prep Metho Date Pre SD Sample | p: 05.0 | 5030B 2.19 953-001 SD | |
|---|---|-----------------|--------------|---------------------|---------------|-------------|--------|-----|-------------------------------------|---------|-----------------------------|------|
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RP | D RPD Limit | Units | Analysis Date | Flag |
| Benzene | < 0.000384 | 0.0998 | 0.104 | 104 | 0.0985 | 99 | 70-130 | 5 | 35 | mg/kg | 05.02.19 23:42 | |
| Toluene | 0.000488 | 0.0998 | 0.0962 | 96 | 0.0903 | 90 | 70-130 | 6 | 35 | mg/kg | 05.02.19 23:42 | |
| Ethylbenzene | < 0.000564 | 0.0998 | 0.0979 | 98 | 0.0912 | 91 | 70-130 | 7 | 35 | mg/kg | 05.02.19 23:42 | |
| m,p-Xylenes | < 0.00101 | 0.200 | 0.203 | 102 | 0.189 | 94 | 70-130 | 7 | 35 | mg/kg | 05.02.19 23:42 | |
| o-Xylene | 0.000359 | 0.0998 | 0.100 | 100 | 0.0935 | 93 | 70-130 | 7 | 35 | mg/kg | 05.02.19 23:42 | |
| Surrogate | | | | 1S Rec | MS Flag | MSD %Ree | | | Limits | Units | Analysis Date | |
| 1,4-Difluorobenzene | | | 1 | 03 | | 103 | | | 70-130 | % | 05.02.19 23:42 | |
| 4-Bromofluorobenzene | | | 1 | 00 | | 102 | | | 70-130 | % | 05.02.19 23:42 | |

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

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

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

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

| Receive | <mark>l by (</mark> σ y ω | Fralet 1 | Relinquished by: (Signature) | 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 \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | 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 | Circle Method(| Total 200.7 / 6010 | 5 P | 1 | | | | | / | SWOL | IOMS | 1 SO 1 | Sample Identification | | Sample Custody Seals: | Cooler Custody Seals: | Received Intact: | Temperature (°C): | SAMPLE RECEIPT | Sampler's Name: | P.O. Number: | Project Number: | Project Name: | Phone: | City, State ZIP: | Address: | Company Name: | Project Manager: | Page 32 of | |
|---------------------------------|------------------------------|---------------|------------------------------|---|---|--|--------------------------|------------|---|---------|---|---|----------|---|-----------|-------------------------|-------------|------------------------|----------------------------|------------------------------------|-----------------------|------------------|-------------------|--------------------|-----------------|--------------|-----------------|------------------|---|------------------------------------|---------------------|--------------------------|----------------------------|--|----------------|
| - | | - Contraction | : (Signature) | liable only for the cost arge of \$75.00 will be a | focument and relinqui | Circle Method(s) and Metal(s) to be analyzed | 010 200.8 / 6020: | | | | | | <u> </u> | | | | | | | | Yes the | (Yes) | olho | | Robert McAfee | ZRP- | | PLV RR | 432.704.5178 | Midland, TX 79705 | 3300 North A Street | LT Environmental, Inc., | Ashley Ager | | |
| | | Macar . | A Received | of samples and shall n pplied to each project a | shment of samples con | | | | | | | / | | | | | 5 04/2019 | ⊐× S | | | × | No | | Temp Blank: Yes No | | 4669 | | 33-25-30 | | 05 | reet | al, Inc., Permian office | | U W He | |
| | | | Received by: (Signature) | ot assume any respons ind a charge of \$5 for e | stitutes a valid purchas | TCLP / SPLP 60 | 8RCRA 13PPM | | | | 1 | | | | 1305 0-1. | 1300 0-1.5 | 1250 1.5 | Sampled | TIME | Total Containers: | Correction Factor: | X | Ther | Wet Ice: Yes | Due Date: | Rush: 2 | Routine | Turn Around | Email: aag | City, | Address | | Bill t | Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) | |
| | | 6106-2017 | D | ibility for any losses o ach sample submitted | e order from client con | ~ | Texas 11 AI Sb | | | | | | | | X 🗢 151 | 1.5' X | 5 | pth Num | | | | tain | 10000 | No | 05/02/H | 24hr | | round | er@ltenv.com.rm | City, State ZIP: Ca | | Company Name: XI | Bill to: (if different) Ky | 281) 240-4200 Dalla: (432-704-5440) EL F () Phoenix,AZ (480-3 | Ch |
| - | | 1C.21 610 | Date/Time | r expenses incurred by to Xenco, but not anal | npany to Xenco, Its aff | As Ba Be Cd | b As Ba Be B | | | | | | | - | V | $\langle x x \rangle$ | へ × × | TPH (BTEX Chlor | (EP | A 0= | -802 | + | | | | | | | Email: ager@ltenv.com rmcafee@ltenv.com | Carlsbad, NM | | XTO-Energy | Kyle Littrel | Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (81: | Chain of Cu |
| | | | Relinquished by: (Signature) | y the client if such los: yzed. These terms will | llates and subcontrac | C° C | Cd Ca Cr Co | | | 1) I | | | | | | | | | | | | | | | | | | ANALYS | D | | | | | San Antonio,TX (21) 43 Lubbock,TX (806 \ (770-449-8800) Ta | Custody |
| | | | y: (Signature) | es are due to circums be enforced unless p | lors. It assigns stands | Ni Se | Cu Fe Ph Ma I | | | | | | | | | | | - | | | | | | | | | | ANALYSIS REQUEST | Deliv | Repo | <u>s</u> | Prog | |)) 509-3334 1794-1296 npa,FL (813-620-20) | |
| | | VVV | A Leokide | tances beyond the co reviously negotiated. | ard terms and condition | Ag TI U | Mn Mn Ni K Se An SiO2 Na | | | | | | | | | | | | | | | | | | | | | | Deliverables: EDD | rting:Level II | | Program: UST/PST | | | Wo |
| | | | et by: (Signature) | ntrol | | / 1631 2002 143 0 | An Sing Na S | | | | | | | | | | | | | | | | | | | | | | ADaPT | Reporting:Level II evel III ST/UST | | PRP Brownfields | š | www.xenco.com | Work Order No. |
| Revised Date 05 | | 2 | Date: | | | 1631 / 245.1 / 7470 / 7471 : Ho | | | | | | | | × | | 1 | Commostr. | Sample Comments | lab, if received by 4:30pm | TAT starts the day receiied by the | | | | | | | | Work Order Notes | Other: | | | Is RC uperfund | | 8 1 | rshttu |
| Revised Date 051418 Rev. 2018.1 | R | 2 | /Time | | | 471 : Ha | 3 | | | | | | | | | | | nents | 4:30pm | evied by the | | | | | | | | Votes | | Ť | | fund | | of | 3 |



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/02/2019 11:05:00 AM Temperature Measuring device used : R8 Work Order #: 622953 Comments Sample Receipt Checklist .3 #1 *Temperature of cooler(s)? #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 N/A

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Checklist completed by: Biuma Teel

Date: 05/02/2019

N/A

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 05/02/2019









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

| Operator: | OGRID: |
|----------------------------|--|
| XTO PERMIAN OPERATING LLC. | 373075 |
| 6401 HOLIDAY HILL ROAD | Action Number: |
| MIDLAND, TX 79707 | 194336 |
| | Action Type: |
| | [IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

CONDITIONS

| Created By | | Condition Date |
|---------------|------|-------------------|
| bhall | None | 3/7/2023 |

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Action 194336