

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    | NRM2014558079 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Release Notification

### Responsible Party

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

### Location of Release Source

Latitude 32.248088 Longitude -103.910562  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                     |           |                 |
|-------------------------|---------------------|-----------|-----------------|
| Site Name               | Poker Lake Unit 167 | Site Type | Flowline        |
| Date Release Discovered | 5-10-2020           | API#      | (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| E           | 5       | 24S      | 30E   | Eddy   |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

|                                                    |                                                                                          |                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <input checked="" type="checkbox"/> Crude Oil      | Volume Released (bbls) 8.79                                                              | Volume Recovered (bbls) 4.5                              |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 0.97                                                              | Volume Recovered (bbls) 0.5                              |
|                                                    | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                                    | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)                                                   | Volume/Weight Recovered (provide units)                  |

Cause of Release A release of fluid was discovered coming from an underground flow line due to corrosion. Flow line was isolated and repaired. A third-party contractor has been retained for remediation activities,

|                |               |
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|                                                                                                                            |                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release?<br>N/A |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>N/A        |                                                                                             |

### Initial Response

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                               |                         |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Title: SH&E Supervisor  |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date: 5-22-20           |
| email: Kyle_Littrell@xtoenergy.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Telephone: 432-221-7331 |
| <b><u>OCD Only</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| Received by: Ramona Marcus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date: 5/24/2020         |

NRM2014558079

|                                          |                  |             |
|------------------------------------------|------------------|-------------|
| <b>Location:</b>                         | <b>PLU 167</b>   |             |
| <b>Spill Date:</b>                       | <b>5/10/2020</b> |             |
| <b>Area 1</b>                            |                  |             |
| Approximate Area =                       | 1061.00          | sq. ft.     |
| Average Saturation (or depth) of spill = | 2.00             | inches      |
|                                          |                  |             |
| Average Porosity Factor =                | 0.15             |             |
|                                          |                  |             |
| <b>VOLUME OF LEAK</b>                    |                  |             |
| Total Crude Oil =                        | 8.75             | bbls        |
| Total Produced Water =                   | 0.97             | bbls        |
| <b>Area 2</b>                            |                  |             |
| Approximate Area =                       | 176.00           | sq. ft.     |
| Average Saturation (or depth) of spill = | 0.50             | inches      |
|                                          |                  |             |
| Average Porosity Factor =                | 0.03             |             |
|                                          |                  |             |
| <b>VOLUME OF LEAK</b>                    |                  |             |
| Total Crude Oil =                        | 0.04             | bbls        |
| Total Produced Water =                   | 0.00             | bbls        |
| <b>TOTAL VOLUME OF LEAK</b>              |                  |             |
| <b>Total Crude Oil =</b>                 | <b>8.79</b>      | <b>bbls</b> |
| <b>Total Produced Water =</b>            | <b>0.97</b>      | <b>bbls</b> |
| <b>TOTAL VOLUME RECOVERED</b>            |                  |             |
| <b>Total Crude Oil =</b>                 | <b>4.50</b>      | <b>bbls</b> |
| <b>Total Produced Water =</b>            | <b>0.50</b>      | <b>bbls</b> |

|                |               |
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## 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>&gt; 100</u> (ft bgs)                                            |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

|                |               |
|----------------|---------------|
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Printed Name: Kyle Littrell Title: SH&E SupervisorSignature:  Date: 8-6-2020email: Kyle\_Littrell@xtoenergy.com Telephone: (432)-221-7331**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
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## Closure

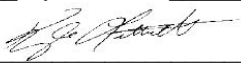
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 8-6-2020

email: Kyle\_Littrell@xtoenergy.com Telephone: 432-221-7331

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



LT Environmental, Inc.

3300 North "A" Street  
Building 1, Unit 222  
Midland, Texas 79705  
432.704.5178

August 6, 2020

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

**RE: Closure Request  
Poker Lake Unit 167  
Incident Number NRM2014558079  
Eddy County, New Mexico**

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), is pleased to present the following Closure Request detailing site assessment, soil sampling, and remediation activities at the Poker Lake Unit 167 (Site) in Unit E, Section 5, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impact to soil by a release of crude oil and produced water at the Site. Based on field observations, field screening, and soil sample laboratory analytical results documented in this Closure Request, XTO respectfully requests no further action (NFA) for Incident Number NRM2014558079.

## RELEASE BACKGROUND

On May 10, 2020, an underground flowline was discovered to be leaking in two different locations due to corrosion, resulting in the release of 8.79 barrels (bbls) of crude oil and 0.97 bbls of produced water. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 4.5 bbls of crude oil and 0.5 bbls of produced water were recovered. The net volume of fluids released was approximately 4.76 bbls. The release created two distinct release areas; one on the well pad near the wellhead with an estimated spill extent of approximately 2,700 square feet and one near the pad entrance along the lease road with an estimated spill extent of 1,000 square feet, totaling an estimated spill area of 3,700 square feet. XTO reported the release on May 22, 2020 to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 and was subsequently assigned Incident Number NRM2014558079.

## SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater



well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-02108, located approximately 1.2 miles south of the Site. The groundwater well has a reported depth to groundwater of 186 feet bgs and a total depth of 200 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash, located approximately 990 feet north 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 not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

### CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Additionally, the reclamation of the affected pasture area must be comprised of non-waste containing earthen material exhibiting chloride concentrations below 600 mg/kg, which was applied per NMAC 19.15.29.13.D (1) to the top 4 feet.

### SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On May 20, 2020, LTE personnel visited the Site to evaluate the release extent. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS). The spill resulted in two distinct release areas; one at the entrance of the well pad along the lease road and into the pasture, and a second on the well pad near the wellhead. Ground cover in both locations is caliche.

LTE personnel collected and field screened preliminary soil assessment samples at nine locations (SS01 through SS09) within the release extent. The nine soil samples were collected at a depth of 0.5 feet below grade surface (bgs). Preliminary soil samples were field screened for volatile



Bratcher, M.  
Page 3

aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Two soil samples collected in areas with the most staining were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Locations of the two preliminary soil samples submitted to Xenco are presented on Figure 2.

According to laboratory analytical results, TPH was reported at concentrations exceeding the reclamation standard for soil in the top 4 feet bgs in the preliminary assessment soil sample SS01, located in the pasture area, adjacent to the caliche road. Concentrations of TPH-GRO, TPH-DRO, and TPH were exceeding Closure Criteria in soil from preliminary soil sample SS02, located south of the equipment on the caliche pad. Based on visible staining in the release areas, elevated field screening results, and laboratory analytical results, soil delineation and excavation appeared to be warranted for both release areas.

### EXCAVATION SOIL SAMPLING ACTIVITIES

LTE oversaw the excavation to remediate impacted soil as indicated by visual observations, field screening results, and preliminary soil sample results. Excavation activities were performed using track-mounted backhoe in both release extents, resulting in two excavations. The excavations were located near the wellhead and in the pasture area and the caliche road entrance to the well pad. In addition to the excavations the stained area of the road was scraped to a depth of 0.5 feet bgs. Photographic documentation is included in Attachment 2.

Following removal of impacted soil, LTE collected 5-point composite soil samples at least every 200 square feet from the sidewalls and floor of the excavations and scraped area of the road. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. A total of 23 composite floor soil samples (FS01 through FS23) and 20 composite sidewall samples (SW01 through SW20) were collected from the excavations. Floor samples were collected at a depth of 4 feet bgs from the excavation in pasture area, from depths ranging from 1 foot bgs to 4 feet bgs in the on pad excavation, and from a depth of 0.5 feet in the scraped area of the road. Sidewall samples were collected from depths ranging from of ground surface to 4 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The locations of the final aerial extent of each excavation and confirmation soil samples are presented on Figure 3.

The two excavation areas totaled approximately 4,700 square feet. A total of approximately 440 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was



Bratcher, M.  
Page 4

transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

### SOIL ANALYTICAL RESULTS

Excavation sidewall sample SW06 collected on the well pad initially exceeded TPH-GRO, TPH-DRO Closure Criteria. Following additional soil removal another sidewall sample was collected. Laboratory analytical results for sidewall sample SW20 collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride were compliant with the Closure Criteria. Laboratory analytical results for all final excavation soil samples indicated that benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. In addition, confirmation samples collected in the top 4 feet in pasture areas were compliant with the reclamation standard. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 3.

### BACKFILL ACTIVITIES

Following a review of all the analytical data, the excavation fencing was removed, and the excavations were backfilled with sourced backfill materials and recontoured to match Site conditions. The pasture excavation will be re-seeded with an approved BLM seed mixture in the fall. Photographic documentation was conducted after the backfill was complete. Photos are included in the photolog in Attachment 2.

### CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 10, 2020 release of crude oil and produced water. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, soil samples collected in the pasture from the top four feet of the subsurface are compliant with the reclamation standard requiring no waste containing material in the top 4 feet. Based on a review of the excavation and delineation soil sample analytical results, no further remediation was required.

Initial response efforts which included removal of freestanding fluids via hydrovac and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors are near the release extents. LTE and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number NRM2014558079.



Bratcher, M.  
Page 5

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

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "Spencer Lo".

Spencer Lo  
Staff Geologist

A handwritten signature in black ink, appearing to read "Ashley L. Ager".

Ashley L. Ager, P.G.  
Senior Geologist

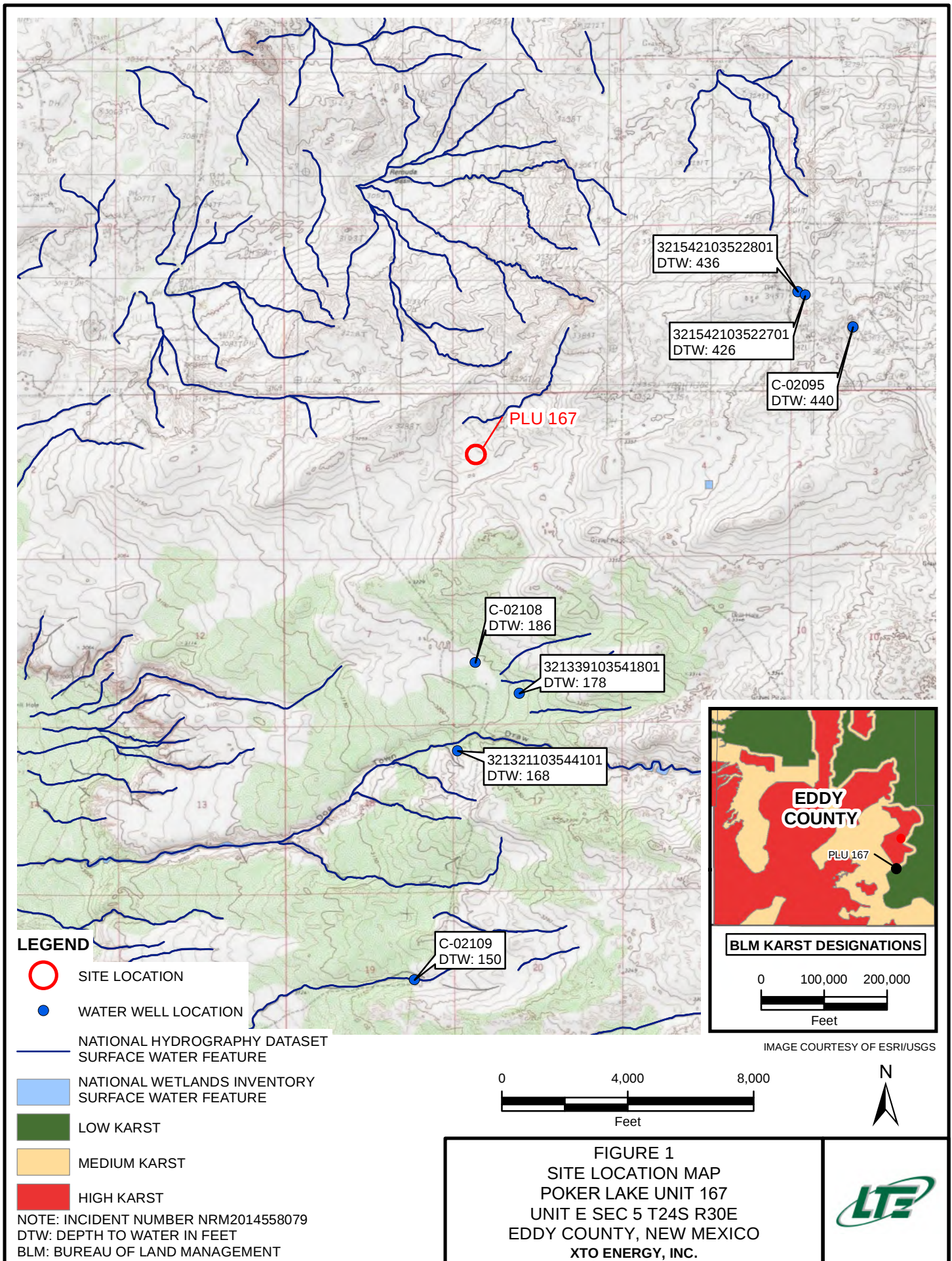
cc: Kyle Littrell, XTO  
Robert Hamlet, NMOCD  
Victoria Venegas, NMOCD  
Jim Amos, Bureau of Land Management

Attachments:

Figure 1 Site Location Map  
Figure 2 Preliminary Soil Sample Locations  
Figure 3 Excavation Soil Sample Locations  
Table 1 Soil Analytical Results  
Attachment 1 Referenced Well Record  
Attachment 2 Photographic Log  
Attachment 3 Laboratory Analytical Reports

FIGURES





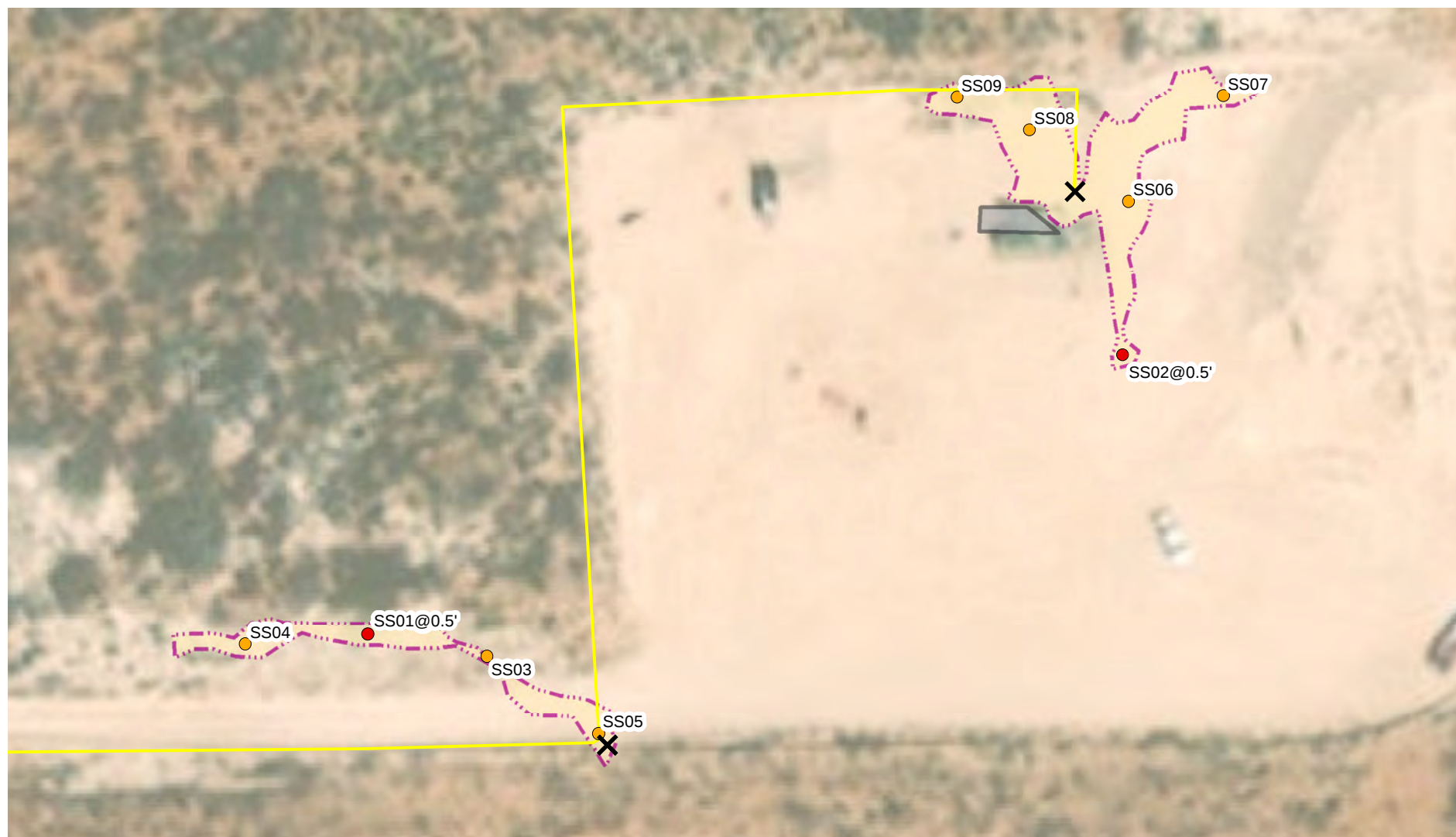
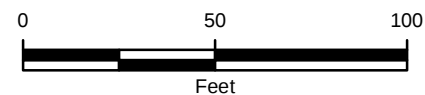


IMAGE COURTESY OF ESRI

**LEGEND**

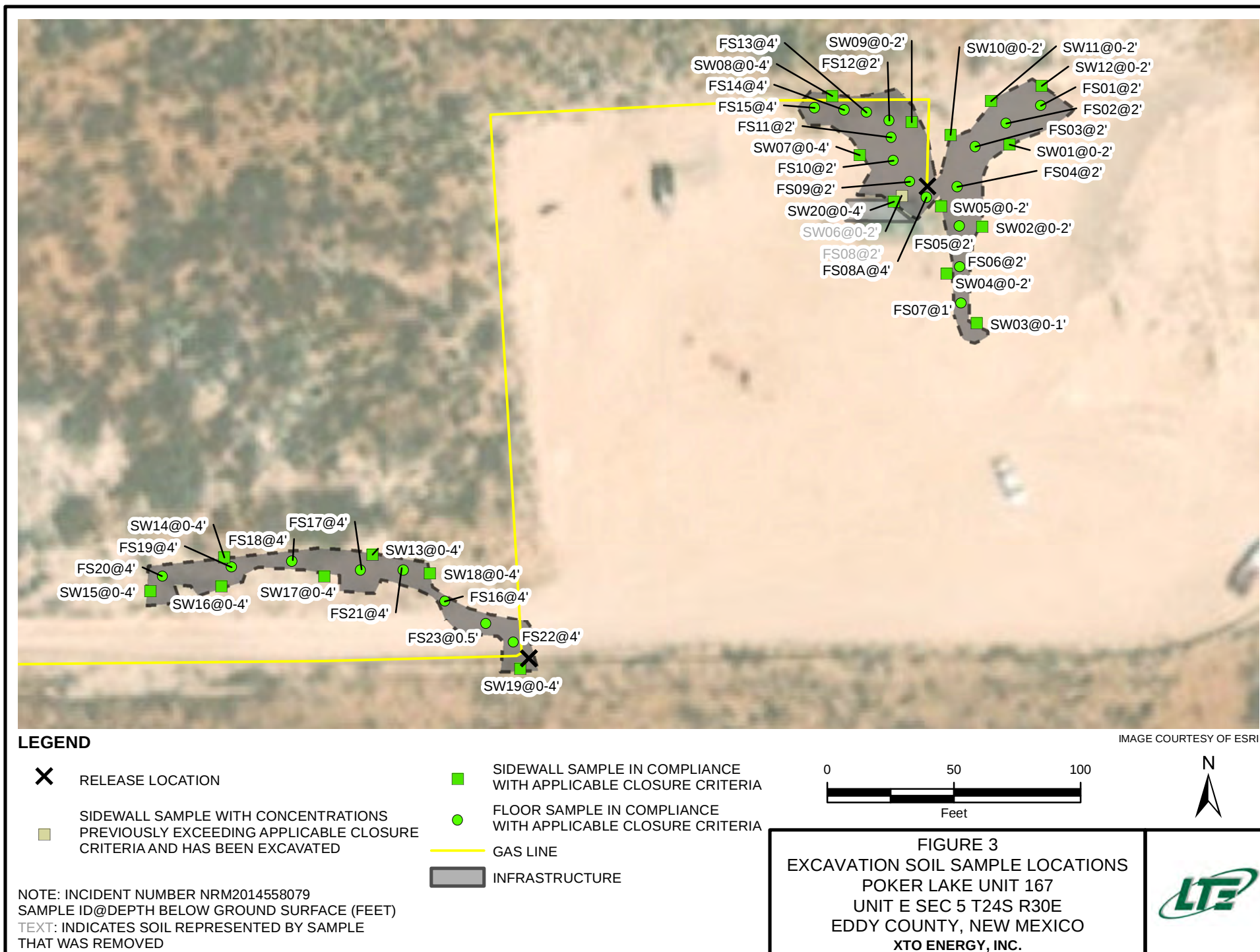
- RELEASE LOCATION
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SOIL SAMPLE
- GAS LINE
- RELEASE EXTENT
- INFRASTRUCTURE



**FIGURE 2**  
**PRELIMINARY SOIL SAMPLE LOCATIONS**  
 POKER LAKE UNIT 167  
 UNIT E SEC 5 T24S R30E  
 EDDY COUNTY, NEW MEXICO  
 XTO ENERGY, INC.



NOTE: INCIDENT NUMBER NRM2014558079  
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)



TABLES



**TABLE 1  
SOIL ANALYTICAL RESULTS**

**POKER LAKE UNIT 167  
INCIDENT NUMBER NRM2014558079  
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) |
|---------------------------------------|-------------------------|-------------|-----------------|-----------------|-----------------------|-----------------------|--------------------|-------------|-------------|-------------|-----------------------|--------------|------------------|
| <b>NMOCD Table 1 Closure Criteria</b> |                         |             | <b>10</b>       | <b>NE</b>       | <b>NE</b>             | <b>NE</b>             | <b>50</b>          | <b>NE</b>   | <b>NE</b>   | <b>NE</b>   | <b>1,000</b>          | <b>2,500</b> | <b>20,000</b>    |
| SS01                                  | 0.5                     | 05/20/2020  | <0.00198        | 0.121           | 0.118                 | 0.449                 | 0.688              | 78.5        | 655         | 56.9        | 734                   | 790          | <10.0            |
| SS02                                  | 0.5                     | 05/20/2020  | 0.0262          | 0.379           | 0.385                 | 1.12                  | 1.91               | 1,160       | 4,450       | 373         | 5,610                 | 5,980        | <10.0            |
| SW01                                  | 0 - 2                   | 06/17/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <50.1       | <50.1       | <50.1       | <50.1                 | <50.1        | <9.90            |
| SW02                                  | 0 - 2                   | 06/17/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <49.9       | <49.9       | <49.9       | <49.9                 | <49.9        | 34.6             |
| SW03                                  | 0 - 1                   | 06/17/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <50.1       | <50.1       | <50.1       | <50.1                 | <50.1        | 50.7             |
| SW04                                  | 0 - 2                   | 06/17/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.2       | 55.7        | <50.2       | 55.7                  | 55.7         | 235              |
| SW05                                  | 0 - 2                   | 06/17/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <50.2       | <50.2       | <50.2       | <50.2                 | <50.2        | 644              |
| SW06                                  | 0 - 2                   | 06/17/2020  | <0.0101         | <0.0101         | <0.0101               | <0.0101               | <0.0101            | <75.3       | 1,490       | <251        | 1,490                 | 1,490        | 1,300            |
| SW07                                  | 0 - 4                   | 06/17/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <49.8       | <49.8       | <49.8       | <49.8                 | <49.8        | 33.6             |
| SW08                                  | 0 - 4                   | 06/17/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | 20.4             |
| SW09                                  | 0 - 2                   | 06/17/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <50.3       | <50.3       | <50.3       | <50.3                 | <50.3        | 15.9             |
| SW10                                  | 0 - 2                   | 06/17/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | 38.5             |
| SW11                                  | 0 - 2                   | 06/17/2020  | <0.00202        | <0.00202        | <0.00202              | <0.00202              | <0.00202           | <50.1       | <50.1       | <50.1       | <50.1                 | <50.1        | 15.1             |
| SW12                                  | 0 - 2                   | 06/17/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <49.8       | <49.8       | <49.8       | <49.8                 | <49.8        | <10.1            |
| SW13                                  | 0 - 4                   | 06/18/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.3       | <50.3       | <50.3       | <50.3                 | <50.3        | 10.3             |
| SW14                                  | 0 - 4                   | 06/18/2020  | <0.00202        | <0.00202        | <0.00202              | <0.00202              | <0.00202           | <50.3       | <50.3       | <50.3       | <50.3                 | <50.3        | 11.2             |
| SW15                                  | 0 - 4                   | 06/18/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | <10.1            |
| SW16                                  | 0 - 4                   | 06/18/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.1       | 73.9        | <50.1       | 73.9                  | 73.9         | 18.6             |
| SW17                                  | 0 - 4                   | 06/18/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <50.2       | <50.2       | <50.2       | <50.2                 | <50.2        | 10.2             |
| SW18                                  | 0 - 4                   | 06/18/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <50.3       | <50.3       | <50.3       | <50.3                 | <50.3        | <10.1            |
| SW19                                  | 0 - 4                   | 06/18/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.2       | <50.2       | <50.2       | <50.2                 | <50.2        | 29.7             |
| SW20                                  | 0 - 4                   | 06/22/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <50.2       | 98.9        | <50.2       | 98.9                  | 98.9         | 1,100            |

**TABLE 1**  
**SOIL ANALYTICAL RESULTS**

**POKER LAKE UNIT 167**  
**INCIDENT NUMBER NRM2014558079**  
**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) |
|---------------------------------------|-------------------------|-------------|-----------------|-----------------|-----------------------|-----------------------|--------------------|-------------|-------------|-------------|-----------------------|--------------|------------------|
| <b>NMOCD Table 1 Closure Criteria</b> |                         |             | <b>10</b>       | <b>NE</b>       | <b>NE</b>             | <b>NE</b>             | <b>50</b>          | <b>NE</b>   | <b>NE</b>   | <b>NE</b>   | <b>1,000</b>          | <b>2,500</b> | <b>20,000</b>    |
| FS01                                  | 2                       | 06/16/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <50.1       | <50.1       | <50.1       | <50.1                 | <50.1        | <10.1            |
| FS02                                  | 2                       | 06/16/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | 18.1             |
| FS03                                  | 2                       | 06/16/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | 10.6             |
| FS04                                  | 2                       | 06/16/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <49.8       | <49.8       | <49.8       | <49.8                 | <49.8        | 39.4             |
| FS05                                  | 2                       | 06/16/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <49.8       | <49.8       | <49.8       | <49.8                 | <49.8        | 59.2             |
| FS06                                  | 2                       | 06/16/2020  | <0.00198        | <0.00198        | <0.00198              | <0.00198              | <0.00198           | <50.0       | 57.6        | <50.0       | 57.6                  | 57.6         | 309              |
| FS07                                  | 1                       | 06/16/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | 25.8             |
| FS08                                  | 2                       | 06/17/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <49.9       | 122         | <49.9       | 122                   | 122          | 699              |
| FS08A                                 | 4                       | 06/22/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.1       | <50.1       | <50.1       | <50.1                 | <50.1        | 549              |
| FS09                                  | 2                       | 06/17/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <49.9       | <49.9       | <49.9       | <49.9                 | <49.9        | 168              |
| FS10                                  | 2                       | 06/17/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <49.8       | <49.8       | <49.8       | <49.8                 | <49.8        | 55.1             |
| FS11                                  | 2                       | 06/17/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <49.8       | 121         | <49.8       | 121                   | 121          | 25.3             |
| FS12                                  | 2                       | 06/17/2020  | <0.00198        | <0.00198        | <0.00198              | <0.00198              | <0.00198           | <50.0       | 62.3        | <50.0       | 62.3                  | 62.3         | 96.3             |
| FS13                                  | 4                       | 06/17/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <50.3       | 96.9        | <50.3       | 96.9                  | 96.9         | 10.8             |
| FS14                                  | 4                       | 06/17/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <49.8       | 78.1        | <49.8       | 78.1                  | 78.1         | <9.96            |
| FS15                                  | 4                       | 06/17/2020  | <0.00201        | <0.00201        | <0.00201              | <0.00201              | <0.00201           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | 15.8             |
| FS16                                  | 4                       | 06/18/2020  | <0.00202        | <0.00202        | <0.00202              | <0.00202              | <0.00202           | <49.9       | <49.9       | <49.9       | <49.9                 | <49.9        | 14.0             |
| FS17                                  | 4                       | 06/18/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | 12.1             |
| FS18                                  | 4                       | 06/18/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <49.9       | <49.9       | <49.9       | <49.9                 | <49.9        | 11.2             |
| FS19                                  | 4                       | 06/18/2020  | <0.00198        | <0.00198        | <0.00198              | <0.00198              | <0.00198           | <49.8       | <49.8       | <49.8       | <49.8                 | <49.8        | 14.6             |
| FS20                                  | 4                       | 06/18/2020  | <0.00199        | <0.00199        | <0.00199              | <0.00199              | <0.00199           | <50.0       | <50.0       | <50.0       | <50.0                 | <50.0        | 13.2             |
| FS21                                  | 4                       | 06/18/2020  | <0.00198        | <0.00198        | <0.00198              | <0.00198              | <0.00198           | <49.9       | <49.9       | <49.9       | <49.9                 | <49.9        | <9.96            |

**TABLE 1**  
**SOIL ANALYTICAL RESULTS**

**POKER LAKE UNIT 167**  
**INCIDENT NUMBER NRM2014558079**  
**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) |
|---------------------------------------|-------------------------|-------------|-----------------|-----------------|-----------------------|-----------------------|--------------------|-------------|-------------|-------------|-----------------------|--------------|------------------|
| <b>NMOCD Table 1 Closure Criteria</b> |                         |             | <b>10</b>       | NE              | NE                    | NE                    | <b>50</b>          | NE          | NE          | NE          | <b>1,000</b>          | <b>2,500</b> | <b>20,000</b>    |
| FS22                                  | 4                       | 06/18/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.1       | 120         | <50.1       | 120                   | 120          | 342              |
| FS23                                  | 0.5                     | 08/03/2020  | <0.00200        | <0.00200        | <0.00200              | <0.00200              | <0.00200           | <50.1       | <50.1       | <50.1       | <50.1                 | <50.1        | 11.4             |

**Notes:**

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

**Bold** - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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

TEXT - indicates soil removed during excavation activities

ATTACHMENT 1: REFERENCED WELL RECORD





## New Mexico Office of the State Engineer

# Point of Diversion Summary

|                   |            |                                    |     |            |     |                         |                       |                                                                                              |
|-------------------|------------|------------------------------------|-----|------------|-----|-------------------------|-----------------------|----------------------------------------------------------------------------------------------|
|                   |            | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |            |     |                         | (NAD83 UTM in meters) |                                                                                              |
|                   |            | (quarters are smallest to largest) |     |            |     |                         | X                     | Y                                                                                            |
| Well Tag          | POD Number | Q64                                | Q16 | Q4         | Sec | Tws                     | Rng                   |                                                                                              |
|                   | C 02108    | 1                                  | 3   | 08         | 24S | 30E                     | 602702                | 3566487*  |
| <hr/>             |            |                                    |     |            |     |                         |                       |                                                                                              |
| Driller License:  |            | Driller Company:                   |     |            |     |                         |                       |                                                                                              |
| Driller Name:     |            | UNKNOWN                            |     |            |     |                         |                       |                                                                                              |
| Drill Start Date: |            | Drill Finish Date:                 |     | 12/31/1963 |     | Plug Date:              |                       |                                                                                              |
| Log File Date:    |            | PCW Rcv Date:                      |     |            |     | Source:                 |                       |                                                                                              |
| Pump Type:        |            | Pipe Discharge Size:               |     |            |     | Estimated Yield: 16 GPM |                       |                                                                                              |
| Casing Size: 7.00 |            | Depth Well:                        |     | 200 feet   |     | Depth Water: 186 feet   |                       |                                                                                              |
| <hr/>             |            |                                    |     |            |     |                         |                       |                                                                                              |

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer

# Point of Diversion Summary

|                   |            |                                    |     |            |     |                          |                       |                                                                                              |
|-------------------|------------|------------------------------------|-----|------------|-----|--------------------------|-----------------------|----------------------------------------------------------------------------------------------|
|                   |            | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |            |     |                          | (NAD83 UTM in meters) |                                                                                              |
|                   |            | (quarters are smallest to largest) |     |            |     |                          | X                     | Y                                                                                            |
| Well Tag          | POD Number | Q64                                | Q16 | Q4         | Sec | Tws                      | Rng                   |                                                                                              |
|                   | C 02095    | 2                                  | 3   | 34         | 23S | 30E                      | 606337                | 3569759*  |
| x                 |            |                                    |     |            |     |                          |                       |                                                                                              |
| Driller License:  |            | Driller Company:                   |     |            |     |                          |                       |                                                                                              |
| Driller Name:     |            | DEPT. OF ENGERY                    |     |            |     |                          |                       |                                                                                              |
| Drill Start Date: |            | Drill Finish Date:                 |     | 08/31/1960 |     | Plug Date:               |                       |                                                                                              |
| Log File Date:    |            | PCW Rcv Date:                      |     |            |     | Source:                  |                       |                                                                                              |
| Pump Type:        |            | Pipe Discharge Size:               |     |            |     | Estimated Yield: 100 GPM |                       |                                                                                              |
| Casing Size:      | 12.75      | Depth Well:                        |     | 554 feet   |     | Depth Water:             |                       | 440 feet                                                                                     |
| y                 |            |                                    |     |            |     |                          |                       |                                                                                              |

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer

# Point of Diversion Summary

|                   |            |                                                                          |     |    |     |                         |     |                       |                                                                                             |
|-------------------|------------|--------------------------------------------------------------------------|-----|----|-----|-------------------------|-----|-----------------------|---------------------------------------------------------------------------------------------|
|                   |            | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |    |     |                         |     | (NAD83 UTM in meters) |                                                                                             |
| Well Tag          | POD Number | Q64                                                                      | Q16 | Q4 | Sec | Tws                     | Rng | X                     | Y                                                                                           |
| C                 | 02109      | 1                                                                        | 2   | 4  | 19  | 24S                     | 30E | 602130                | 3563412  |
| x                 |            |                                                                          |     |    |     |                         |     |                       |                                                                                             |
| Driller License:  |            | Driller Company:                                                         |     |    |     |                         |     |                       |                                                                                             |
| Driller Name:     |            | UNKNOWN                                                                  |     |    |     |                         |     |                       |                                                                                             |
| Drill Start Date: |            | Drill Finish Date:                                                       |     |    |     | 12/31/1963              |     | Plug Date:            |                                                                                             |
| Log File Date:    |            | PCW Rcv Date:                                                            |     |    |     | Source:                 |     |                       |                                                                                             |
| Pump Type:        |            | Pipe Discharge Size:                                                     |     |    |     | Estimated Yield: 40 GPM |     |                       |                                                                                             |
| Casing Size: 7.00 |            | Depth Well:                                                              |     |    |     | 130 feet                |     | Depth Water: 150 feet |                                                                                             |
| y                 |            |                                                                          |     |    |     |                         |     |                       |                                                                                             |

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POINT OF DIVERSION SUMMARY

# USGS 321321103544101 24S.30E.18.22144

## Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°13'21", Longitude 103°54'41" NAD27  
Eddy County, New Mexico , Hydrologic Unit 13060011  
Well depth: not determined.  
Land surface altitude: 3,192 feet above NAVD88.

#### AVAILABLE DATA:

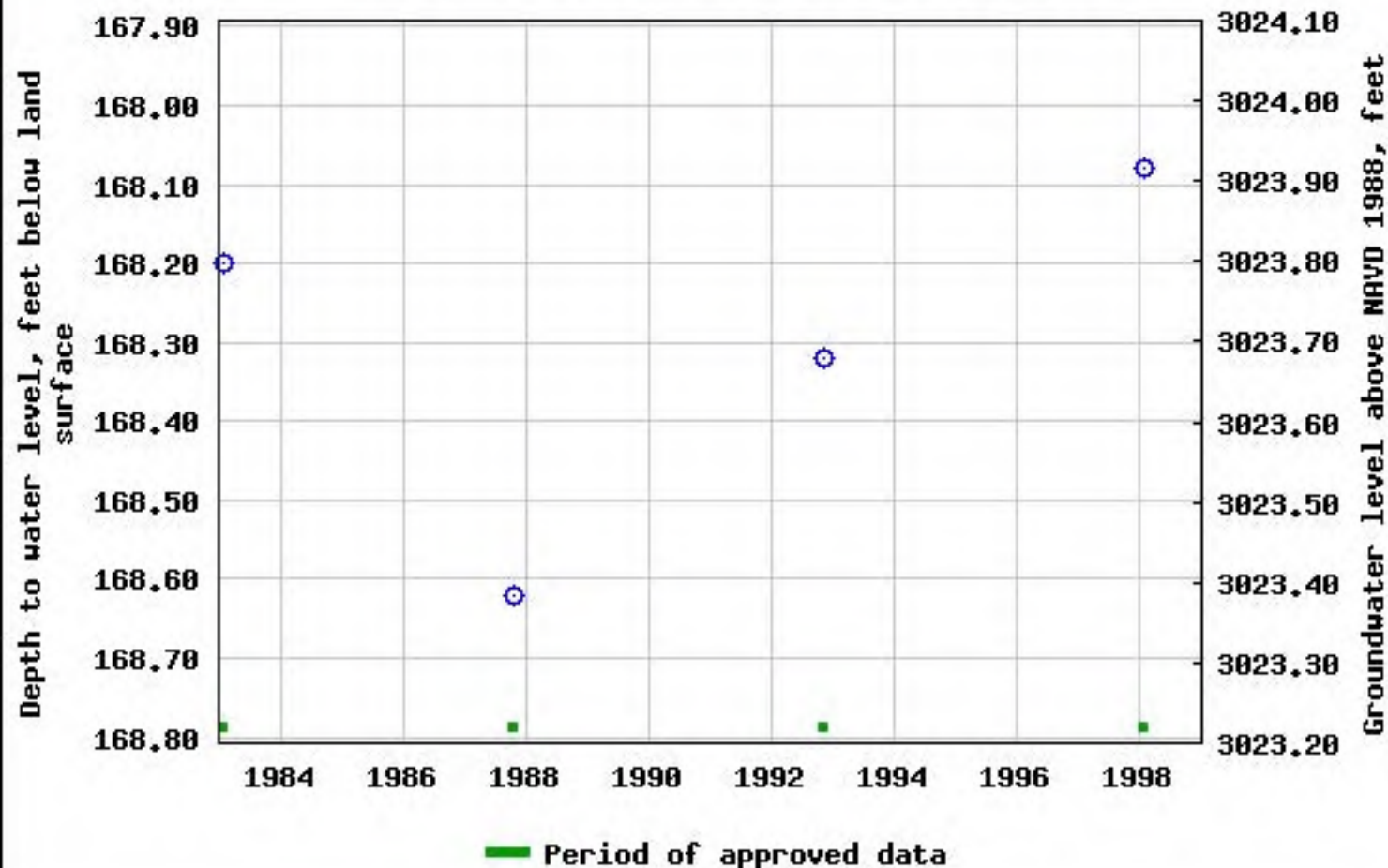
| Data Type                                            | Begin Date                          | End Date   | Count |
|------------------------------------------------------|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1983-02-01                          | 1998-01-27 | 4     |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data  
Inquiries](#)



## USGS 321321103544101 24S.30E.18.22144



# USGS 321339103541801 24S.30E.08.33222

## Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°13'39", Longitude 103°54'18" NAD27  
Eddy County, New Mexico , Hydrologic Unit 13060011  
Well depth: 192 feet  
Land surface altitude: 3,207 feet above NAVD88.  
Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

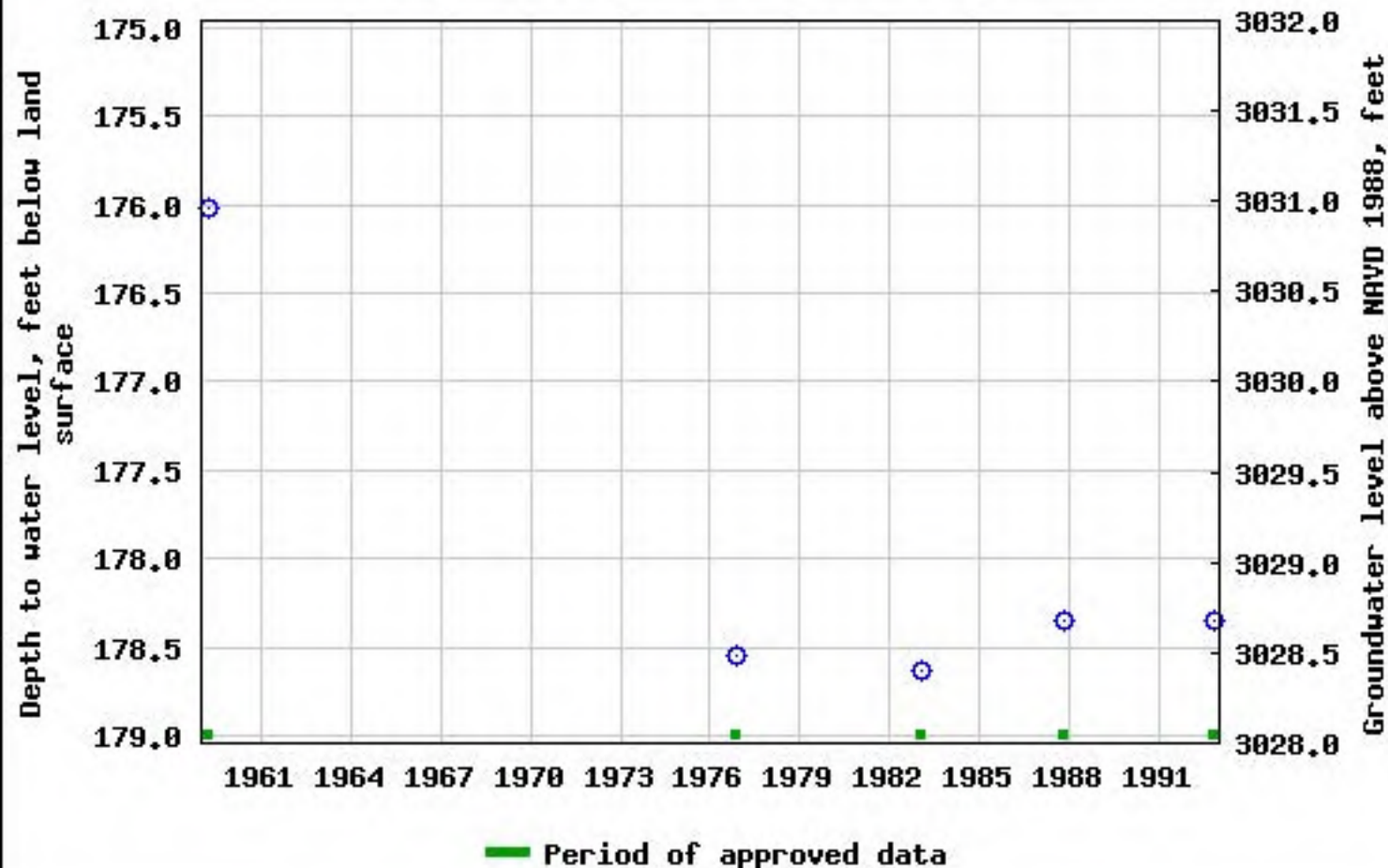
| Data Type                                            | Begin Date                          | End Date   | Count |
|------------------------------------------------------|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1959-03-23                          | 1992-11-04 | 5     |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data  
Inquiries](#)



## USGS 321339103541801 24S.30E.08.33222



# USGS 321542103522701 23S.30E.34.13323 USGS-8

## Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°15'45.4", Longitude 103°52'34.64" NAD83  
Eddy County, New Mexico , Hydrologic Unit 13060011  
Well depth: not determined.  
Land surface altitude: 3,411 feet above NAVD88.  
Well completed in "Rustler Formation" (312RSLR) local aquifer

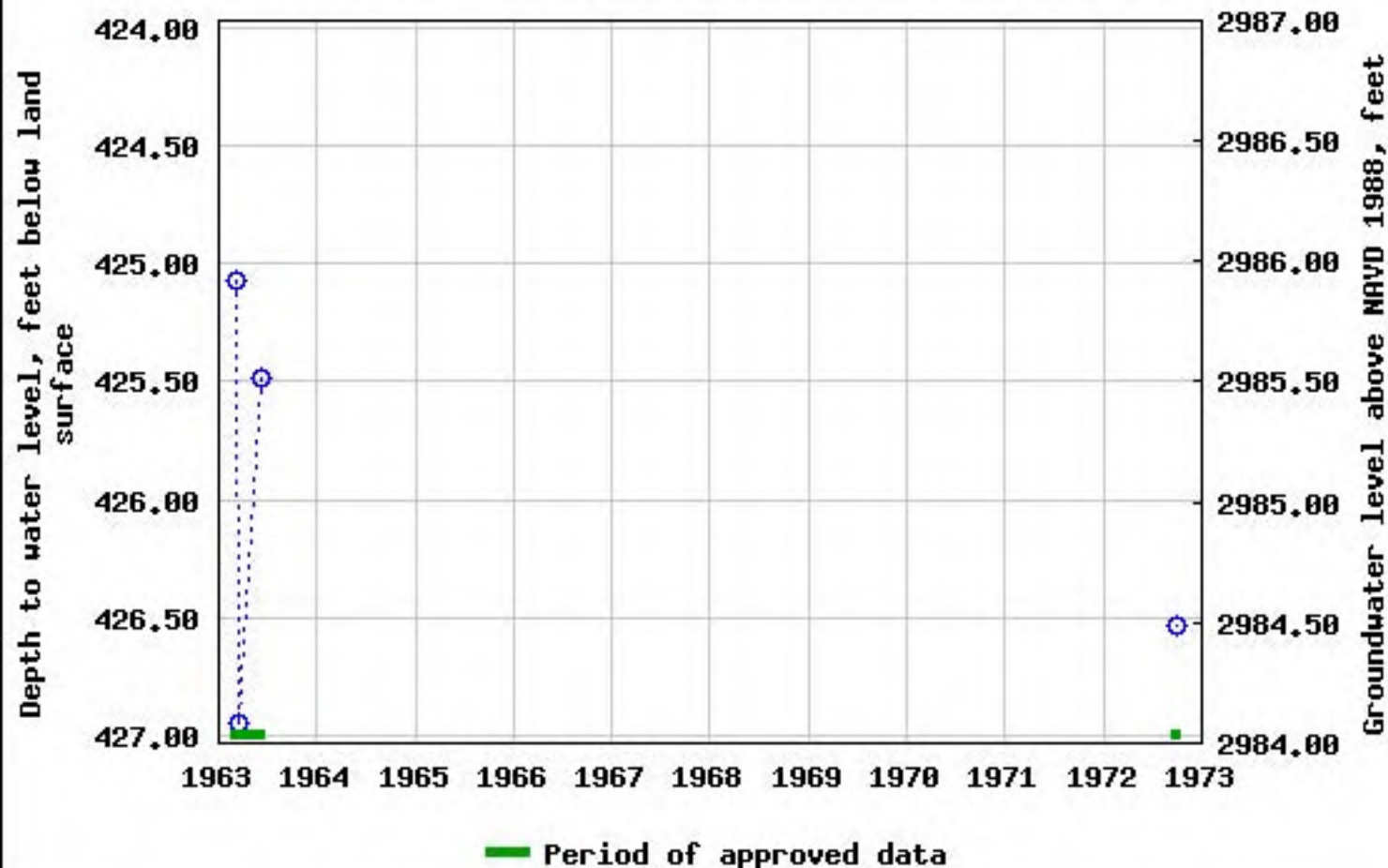
#### AVAILABLE DATA:

| Data Type                                            | Begin Date                          | End Date   | Count |
|------------------------------------------------------|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1963-03-10                          | 1972-09-25 | 4     |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data  
Inquiries](#)

## USGS 321542103522701 23S.30E.34.13323 USGS-8



# USGS 321542103522801 23S.30E.34.133144

## USGS-4

### Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°15'45.42", Longitude 103°52'36.09" NAD83  
Eddy County, New Mexico , Hydrologic Unit 13060011  
Well depth: 518 feet  
Land surface altitude: 3,413 feet above NAVD88.  
Well completed in "Rustler Formation" (312RSLR) local aquifer

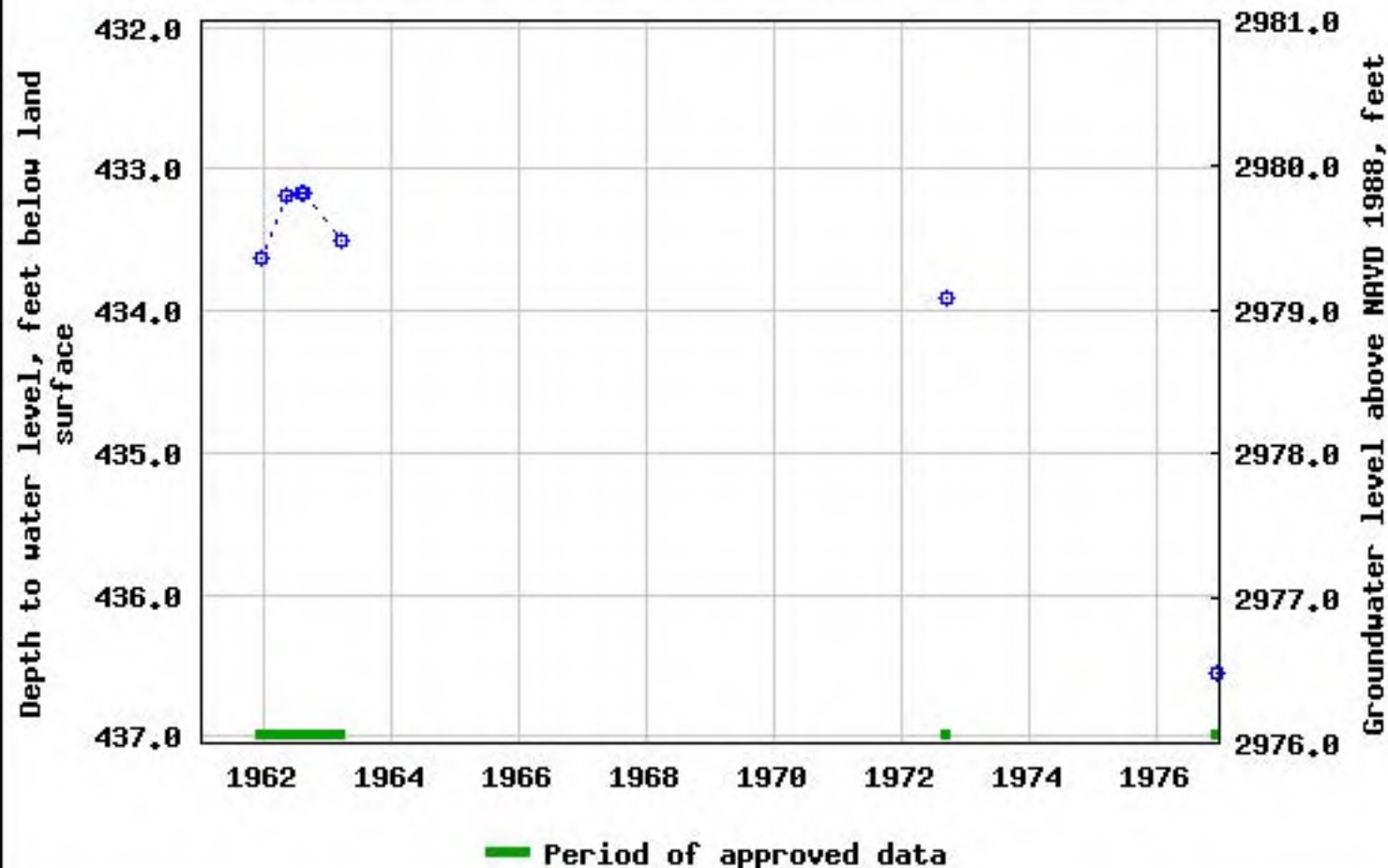
#### AVAILABLE DATA:

| Data Type                                            | Begin Date                          | End Date   | Count |
|------------------------------------------------------|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1961-12-12                          | 1976-12-14 | 7     |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data  
Inquiries](#)

## USGS 321542103522801 23S.30E.34.133144 USGS-4



ATTACHMENT 2: PHOTOGRAPHIC LOG



## PHOTOGRAPHIC LOG



**Photograph 1:** Western view of road staining.



**Photograph 2:** Western view of stained area in pasture.



**Photograph 3:** Northern view of release location in pasture.



**Photograph 4:** Western view of road scrape near release point in pasture.

## PHOTOGRAPHIC LOG



**Photograph 5:** Northern view of excavation near release point in pasture.



**Photograph 6:** Western view of excavation in pasture.



**Photograph 7:** Northern view of release location on pad.



**Photograph 8:** Western view of stained area on pad.

## PHOTOGRAPHIC LOG



**Photograph 9:** Northern view of stained area on pad.



**Photograph 10:** Western view of excavation on pad.



**Photograph 11:** Northern view of excavation on pad.



**Photograph 12:** Southern view of pad excavation.

## PHOTOGRAPHIC LOG



**Photograph 1:** View of completed backfill on pad.



**Photograph 2:** View of completed backfill along lease road.



**Photograph 3:** View of completed backfill along lease road.

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS





# Certificate of Analysis Summary 662291

LT Environmental, Inc., Arvada, CO

**Project Name:** PLU 167H

**Project Id:** 012920078

**Contact:** Dan Moir

**Project Location:**

**Date Received in Lab:** Thu 05.21.2020 13:50

**Report Date:** 05.29.2020 10:05

**Project Manager:** Jessica Kramer

|                            |                                    |                  |                  |  |  |  |  |
|----------------------------|------------------------------------|------------------|------------------|--|--|--|--|
| <b>Analysis Requested</b>  | <b>Lab Id:</b>                     | 662291-001       | 662291-002       |  |  |  |  |
|                            | <b>Field Id:</b>                   | SS03             | SS05             |  |  |  |  |
|                            | <b>Depth:</b>                      | 0.5- ft          | 0.5- ft          |  |  |  |  |
|                            | <b>Matrix:</b>                     | SOIL             | SOIL             |  |  |  |  |
|                            | <b>Sampled:</b>                    | 05.20.2020 14:15 | 05.20.2020 14:55 |  |  |  |  |
| <b>BTEX by EPA 8021B</b>   | <b>Extracted:</b>                  | 05.21.2020 17:28 | 05.21.2020 17:28 |  |  |  |  |
|                            | <b>Analyzed:</b>                   | 05.21.2020 23:12 | 05.21.2020 23:32 |  |  |  |  |
|                            | <b>Units/RL:</b>                   | mg/kg RL         | mg/kg RL         |  |  |  |  |
|                            | Benzene                            | <0.00198 0.00198 | 0.0262 0.00198   |  |  |  |  |
|                            | Toluene                            | 0.121 0.00198    | 0.379 0.00198    |  |  |  |  |
|                            | Ethylbenzene                       | 0.118 0.00198    | 0.385 0.00198    |  |  |  |  |
|                            | m,p-Xylenes                        | 0.300 0.00397    | 0.762 0.00397    |  |  |  |  |
|                            | o-Xylene                           | 0.149 0.00198    | 0.355 0.00198    |  |  |  |  |
|                            | Total Xylenes                      | 0.449 0.00198    | 1.12 0.00198     |  |  |  |  |
|                            | Total BTEX                         | 0.688 0.00198    | 1.91 0.00198     |  |  |  |  |
| <b>Chloride by EPA 300</b> | <b>Extracted:</b>                  | 05.21.2020 17:43 | 05.21.2020 17:43 |  |  |  |  |
|                            | <b>Analyzed:</b>                   | 05.22.2020 01:08 | 05.22.2020 01:14 |  |  |  |  |
|                            | <b>Units/RL:</b>                   | mg/kg RL         | mg/kg RL         |  |  |  |  |
|                            | Chloride                           | <10.0 10.0       | <10.0 10.0       |  |  |  |  |
| <b>TPH by SW8015 Mod</b>   | <b>Extracted:</b>                  | 05.22.2020 16:00 | 05.22.2020 16:00 |  |  |  |  |
|                            | <b>Analyzed:</b>                   | 05.22.2020 20:11 | 05.22.2020 19:30 |  |  |  |  |
|                            | <b>Units/RL:</b>                   | mg/kg RL         | mg/kg RL         |  |  |  |  |
|                            | Gasoline Range Hydrocarbons (GRO)  | 78.5 50.0        | 1160 50.2        |  |  |  |  |
|                            | Diesel Range Organics (DRO)        | 655 50.0         | 4450 50.2        |  |  |  |  |
|                            | Motor Oil Range Hydrocarbons (MRO) | 56.9 50.0        | 373 50.2         |  |  |  |  |
|                            | Total GRO-DRO                      | 734 50.0         | 5610 50.2        |  |  |  |  |
|                            | Total TPH                          | 790 50.0         | 5980 50.2        |  |  |  |  |

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

Holly Taylor  
Project Manager



# Analytical Report 662291

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167H**

**012920078**

**05.29.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-6)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.29.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **662291**

**PLU 167H**

Project Address:

**Dan Moir:**

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) 662291. 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. 662291 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 'Holly Taylor'. The signature is written in a cursive, flowing style.

---

**Holly Taylor**  
Project Manager

*A Small Business and Minority Company*

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



## Sample Cross Reference 662291

LT Environmental, Inc., Arvada, CO

PLU 167H

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| SS03      | S      | 05.20.2020 14:15 | 0.5 ft       | 662291-001    |
| SS05      | S      | 05.20.2020 14:55 | 0.5 ft       | 662291-002    |



## CASE NARRATIVE

***Client Name: LT Environmental, Inc.***

***Project Name: PLU 167H***

Project ID: 012920078  
Work Order Number(s): 662291

Report Date: 05.29.2020  
Date Received: 05.21.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 662291

LT Environmental, Inc., Arvada, CO

PLU 167H

Sample Id: SS03  
Lab Sample Id: 662291-001

Matrix: Soil  
Date Collected: 05.20.2020 14:15

Date Received: 05.21.2020 13:50  
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3126735

Date Prep: 05.21.2020 17:43

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <10.0  | 10.0 | mg/kg | 05.22.2020 01:08 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3126899

Date Prep: 05.22.2020 16:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 78.5   | 50.0 | mg/kg | 05.22.2020 20:11 |      | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 655    | 50.0 | mg/kg | 05.22.2020 20:11 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 56.9   | 50.0 | mg/kg | 05.22.2020 20:11 |      | 1   |
| Total GRO-DRO                      | PHC628     | 734    | 50.0 | mg/kg | 05.22.2020 20:11 |      | 1   |
| Total TPH                          | PHC635     | 790    | 50.0 | mg/kg | 05.22.2020 20:11 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 05.22.2020 20:11 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 05.22.2020 20:11 |      |



# Certificate of Analytical Results 662291

LT Environmental, Inc., Arvada, CO

PLU 167H

Sample Id: **SS03**  
Lab Sample Id: 662291-001

Matrix: Soil  
Date Collected: 05.20.2020 14:15

Date Received: 05.21.2020 13:50  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MRB

Seq Number: 3126744

Prep Method: SW5035A

% Moisture:

Date Prep: 05.21.2020 17:28

Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 05.21.2020 23:12     | U           | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>0.121</b>      | 0.00198      | mg/kg         | 05.21.2020 23:12     |             | 1   |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.118</b>      | 0.00198      | mg/kg         | 05.21.2020 23:12     |             | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.300</b>      | 0.00397      | mg/kg         | 05.21.2020 23:12     |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.149</b>      | 0.00198      | mg/kg         | 05.21.2020 23:12     |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.449</b>      | 0.00198      | mg/kg         | 05.21.2020 23:12     |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.688</b>      | 0.00198      | mg/kg         | 05.21.2020 23:12     |             | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 104               | %            | 70-130        | 05.21.2020 23:12     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 95                | %            | 70-130        | 05.21.2020 23:12     |             |     |



# Certificate of Analytical Results 662291

LT Environmental, Inc., Arvada, CO

PLU 167H

Sample Id: SS05  
Lab Sample Id: 662291-002

Matrix: Soil  
Date Collected: 05.20.2020 14:55

Date Received: 05.21.2020 13:50  
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3126735

Date Prep: 05.21.2020 17:43

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <10.0  | 10.0 | mg/kg | 05.22.2020 01:14 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3126904

Date Prep: 05.22.2020 16:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1160   | 50.2 | mg/kg | 05.22.2020 19:30 |      | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 4450   | 50.2 | mg/kg | 05.22.2020 19:30 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 373    | 50.2 | mg/kg | 05.22.2020 19:30 |      | 1   |
| Total GRO-DRO                      | PHC628     | 5610   | 50.2 | mg/kg | 05.22.2020 19:30 |      | 1   |
| Total TPH                          | PHC635     | 5980   | 50.2 | mg/kg | 05.22.2020 19:30 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 114        | %     | 70-135 | 05.22.2020 19:30 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 05.22.2020 19:30 |      |



# Certificate of Analytical Results 662291

**LT Environmental, Inc., Arvada, CO**

PLU 167H

Sample Id: **SS05**  
Lab Sample Id: 662291-002

Matrix: **Soil**  
Date Collected: 05.20.2020 14:55

Date Received: 05.21.2020 13:50  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **MAB**

% Moisture:

Analyst: **MRB**

Date Prep: 05.21.2020 17:28

Basis: **Wet Weight**

Seq Number: 3126744

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.0262</b>     | 0.00198      | mg/kg         | 05.21.2020 23:32     |             | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>0.379</b>      | 0.00198      | mg/kg         | 05.21.2020 23:32     |             | 1   |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.385</b>      | 0.00198      | mg/kg         | 05.21.2020 23:32     |             | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.762</b>      | 0.00397      | mg/kg         | 05.21.2020 23:32     |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.355</b>      | 0.00198      | mg/kg         | 05.21.2020 23:32     |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>1.12</b>       | 0.00198      | mg/kg         | 05.21.2020 23:32     |             | 1   |
| <b>Total BTEX</b>    |                   | <b>1.91</b>       | 0.00198      | mg/kg         | 05.21.2020 23:32     |             | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 97                | %            | 70-130        | 05.21.2020 23:32     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 78                | %            | 70-130        | 05.21.2020 23:32     |             |     |



## 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.      **ND** Not Detected.

**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.

PLU 167H

## Analytical Method: Chloride by EPA 300

Seq Number: 3126735

MB Sample Id: 7703898-1-BLK

Matrix: Solid

LCS Sample Id: 7703898-1-BKS

Prep Method: E300P

Date Prep: 05.21.2020

LCSD Sample Id: 7703898-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <50.0     | 1250         | 1240       | 99       | 1240        | 99        | 90-110 | 0    | 20        | mg/kg | 05.22.2020 00:33 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3126735

Parent Sample Id: 662289-001

Matrix: Soil

MS Sample Id: 662289-001 S

Prep Method: E300P

Date Prep: 05.21.2020

MSD Sample Id: 662289-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 385           | 198          | 603       | 110     | 571        | 93       | 90-110 | 5    | 20        | mg/kg | 05.22.2020 00:50 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3126735

Parent Sample Id: 662292-008

Matrix: Soil

MS Sample Id: 662292-008 S

Prep Method: E300P

Date Prep: 05.21.2020

MSD Sample Id: 662292-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 129           | 201          | 308       | 89      | 307        | 89       | 90-110 | 0    | 20        | mg/kg | 05.22.2020 02:19 | X    |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3126899

MB Sample Id: 7704012-1-BLK

Matrix: Solid

LCS Sample Id: 7704012-1-BKS

Prep Method: SW8015P

Date Prep: 05.22.2020

LCSD Sample Id: 7704012-1-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) | <50.0     | 1000         | 980        | 98       | 982         | 98        | 70-135 | 0    | 35        | mg/kg | 05.22.2020 16:45 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1130       | 113      | 1130        | 113       | 70-135 | 0    | 35        | mg/kg | 05.22.2020 16:45 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 121     |         | 134      |          | 132       |           | 70-135 | %     | 05.22.2020 16:45 |
| o-Terphenyl    | 130     |         | 132      |          | 130       |           | 70-135 | %     | 05.22.2020 16:45 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3126904

MB Sample Id: 7704016-1-BLK

Matrix: Solid

LCS Sample Id: 7704016-1-BKS

Prep Method: SW8015P

Date Prep: 05.22.2020

LCSD Sample Id: 7704016-1-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) | <50.0     | 1000         | 1030       | 103      | 1060        | 106       | 70-135 | 3    | 35        | mg/kg | 05.22.2020 16:45 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1050       | 105      | 951         | 95        | 70-135 | 10   | 35        | mg/kg | 05.22.2020 16:45 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 132     |         | 122      |          | 118       |           | 70-135 | %     | 05.22.2020 16:45 |
| o-Terphenyl    | 132     |         | 108      |          | 114       |           | 70-135 | %     | 05.22.2020 16:45 |

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.

PLU 167H

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3126899

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.22.2020

MB Sample Id: 7704012-1-BLK

## Parameter

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 05.22.2020 16:25 |      |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3126904

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.22.2020

MB Sample Id: 7704016-1-BLK

## Parameter

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 05.22.2020 16:25 |      |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3126899

Matrix: Soil

Prep Method: SW8015P

Date Prep: 05.22.2020

Parent Sample Id: 662329-001

MS Sample Id: 662329-001 S

MSD Sample Id: 662329-001 SD

## Parameter

| 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) | <49.8         | 996          | 913       | 92      | 930        | 93       | 70-135 | 2    | 35        | mg/kg | 05.22.2020 17:47 |      |
| Diesel Range Organics (DRO)       | 2830          | 996          | 3780      | 95      | 3630       | 80       | 70-135 | 4    | 35        | mg/kg | 05.22.2020 17:47 |      |

## Surrogate

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 106     |         | 107      |          | 70-135 | %     | 05.22.2020 17:47 |
| o-Terphenyl    | 117     |         | 118      |          | 70-135 | %     | 05.22.2020 17:47 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3126904

Matrix: Soil

Prep Method: SW8015P

Date Prep: 05.22.2020

Parent Sample Id: 662292-021

MS Sample Id: 662292-021 S

MSD Sample Id: 662292-021 SD

## Parameter

| 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) | <50.2         | 1000         | 1050      | 105     | 1040       | 104      | 70-135 | 1    | 35        | mg/kg | 05.22.2020 17:47 |      |
| Diesel Range Organics (DRO)       | <50.2         | 1000         | 1120      | 112     | 1110       | 111      | 70-135 | 1    | 35        | mg/kg | 05.22.2020 17:47 |      |

## Surrogate

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 113     |         | 113      |          | 70-135 | %     | 05.22.2020 17:47 |
| o-Terphenyl    | 104     |         | 105      |          | 70-135 | %     | 05.22.2020 17:47 |

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.

PLU 167H

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3126744

MB Sample Id: 7703835-1-BLK

Matrix: Solid

LCS Sample Id: 7703835-1-BKS

Prep Method: SW5035A

Date Prep: 05.21.2020

LCSD Sample Id: 7703835-1-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        | 0.114      | 114      | 0.114       | 114       | 70-130 | 0    | 35        | mg/kg | 05.21.2020 14:58 |      |
| Toluene      | <0.00200  | 0.100        | 0.109      | 109      | 0.110       | 110       | 70-130 | 1    | 35        | mg/kg | 05.21.2020 14:58 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.104      | 104      | 0.103       | 103       | 71-129 | 1    | 35        | mg/kg | 05.21.2020 14:58 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.214      | 107      | 0.214       | 107       | 70-135 | 0    | 35        | mg/kg | 05.21.2020 14:58 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.107      | 107      | 0.107       | 107       | 71-133 | 0    | 35        | mg/kg | 05.21.2020 14:58 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 110     |         | 105      |          | 105       |           | 70-130 | %     | 05.21.2020 14:58 |
| 4-Bromofluorobenzene | 95      |         | 91       |          | 89        |           | 70-130 | %     | 05.21.2020 14:58 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3126744

Parent Sample Id: 662199-021

Matrix: Soil

MS Sample Id: 662199-021 S

Prep Method: SW5035A

Date Prep: 05.21.2020

MSD Sample Id: 662199-021 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200      | 0.100        | 0.113     | 113     | 0.117      | 116      | 70-130 | 3    | 35        | mg/kg | 05.21.2020 20:08 |      |
| Toluene      | <0.00200      | 0.100        | 0.109     | 109     | 0.127      | 126      | 70-130 | 15   | 35        | mg/kg | 05.21.2020 20:08 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.101     | 101     | 0.0987     | 98       | 71-129 | 2    | 35        | mg/kg | 05.21.2020 20:08 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.209     | 105     | 0.204      | 101      | 70-135 | 2    | 35        | mg/kg | 05.21.2020 20:08 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.102     | 102     | 0.100      | 99       | 71-133 | 2    | 35        | mg/kg | 05.21.2020 20:08 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 107     |         | 108      |          | 70-130 | %     | 05.21.2020 20:08 |
| 4-Bromofluorobenzene | 94      |         | 94       |          | 70-130 | %     | 05.21.2020 20:08 |

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



| Work Order Comments                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| <b>Program:</b> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>                           |  |  |  |  |  |  |  |  |  |
| <b>State of Project:</b>                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |
| <b>Reporting Level:</b> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |  |  |  |  |  |  |  |  |
| <b>Deliverables:</b> EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____                                                                                                               |  |  |  |  |  |  |  |  |  |

|                 |                 |                                             |
|-----------------|-----------------|---------------------------------------------|
| Project Name:   | PLU 167H        | Turn Around                                 |
| Project Number: | 012920078       | Routine <input checked="" type="checkbox"/> |
| P.O. Number:    |                 | Rush:                                       |
| Sampler's Name: | Ezequiel Moreno | Due Date:                                   |

| <b>SAMPLE RECEIPT</b> |             |                |                         |
|-----------------------|-------------|----------------|-------------------------|
| Temperature (°C):     | Temp Blank: | Yes No         | Wet Ice: Yes No         |
| Received Intact:      | (Yes) No    | Thermometer ID |                         |
| Cooler Custody Seals: | Yes (No)    | N/A            | Correction Factor: -0.2 |
| Sample Custody Seals: | Yes (No)    | N/A            | Total Containers: 21    |

|                                                               |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| Number of Containers                                          |  |  |  |  |  |  |  |  |  |
| (EPA 8015)                                                    |  |  |  |  |  |  |  |  |  |
| (EPA 0=8021)                                                  |  |  |  |  |  |  |  |  |  |
| Side (EPA 300.0)                                              |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
|                                                               |  |  |  |  |  |  |  |  |  |
| TAT starts the day received by the lab, if received by 4:30pm |  |  |  |  |  |  |  |  |  |

ANALYSIS REQUEST

WORK ORDER NOTES

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Num | TPH (%) | BTEX | Chlor | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----|---------|------|-------|-----------------|
| 5503                  | S      | 5/20/20      | 1415         | 0.5'  | 1   | XX      | XX   | XX    |                 |
| 5505                  | S      | 5/20/20      | 1455         | 0.5'  | 1   | XX      | XX   | XX    |                 |
| /                     |        |              |              |       |     |         |      |       |                 |

| Total 200.7 / 6010 | 200.8 / 6020: |                                                                                                        |
|--------------------|---------------|--------------------------------------------------------------------------------------------------------|
| 8RCRA              | 13PPM         | Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Si Ti Sn U V Zn |
| TCLP / SPLP 6010:  | 8RCRA         | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U                                                         |
|                    |               | 1631 / 245.1 / 7470 / 7471 : Hg                                                                        |

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 \$75.00 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.

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time        | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|------------------|------------------------------|--------------------------|-----------|
| 1 <i>[Signature]</i>         | <i>[Signature]</i>       | 5/21/20 15:13:50 | 2                            |                          |           |
| 3                            |                          |                  | 4                            |                          |           |
| 5                            |                          |                  | 6                            |                          |           |

Revised Date 05/14/18 Rev. 2018

## XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 05.21.2020 01.50.00 PM

Work Order #: 662291

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 1.6      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

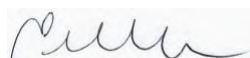
Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

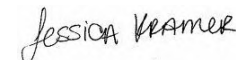
Checklist completed by:



Elizabeth McClellan

Date: 05.21.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.22.2020



# Certificate of Analysis Summary 664900

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.22.2020 12:47

Project Manager: Jessica Kramer

|                                    |                   |                  |  |  |  |  |  |
|------------------------------------|-------------------|------------------|--|--|--|--|--|
| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 664900-001       |  |  |  |  |  |
|                                    | <b>Field Id:</b>  | FS22             |  |  |  |  |  |
|                                    | <b>Depth:</b>     | 4- ft            |  |  |  |  |  |
|                                    | <b>Matrix:</b>    | SOIL             |  |  |  |  |  |
|                                    | <b>Sampled:</b>   | 06.18.2020 14:10 |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> | 06.19.2020 10:39 |  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | 06.19.2020 14:26 |  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         |  |  |  |  |  |
| Benzene                            |                   | <0.00200 0.00200 |  |  |  |  |  |
| Toluene                            |                   | <0.00200 0.00200 |  |  |  |  |  |
| Ethylbenzene                       |                   | <0.00200 0.00200 |  |  |  |  |  |
| m,p-Xylenes                        |                   | <0.00400 0.00400 |  |  |  |  |  |
| o-Xylene                           |                   | <0.00200 0.00200 |  |  |  |  |  |
| Total Xylenes                      |                   | <0.00200 0.00200 |  |  |  |  |  |
| Total BTEX                         |                   | <0.00200 0.00200 |  |  |  |  |  |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> | 06.19.2020 12:43 |  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | 06.19.2020 15:08 |  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         |  |  |  |  |  |
| Chloride                           |                   | 342 9.94         |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>           | <b>Extracted:</b> | 06.19.2020 13:30 |  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | 06.19.2020 13:49 |  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         |  |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.1 50.1       |  |  |  |  |  |
| Diesel Range Organics (DRO)        |                   | 120 50.1         |  |  |  |  |  |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.1 50.1       |  |  |  |  |  |
| Total GRO-DRO                      |                   | 120 50.1         |  |  |  |  |  |
| Total TPH                          |                   | 120 50.1         |  |  |  |  |  |

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

Jessica Kramer  
Project Manager



# Analytical Report 664900

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167**

**012920078**

**06.22.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.22.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **664900**

**PLU 167**

Project Address:

**Dan Moir:**

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) 664900. 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. 664900 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'. The signature is written in a cursive, flowing style.

---

**Jessica Kramer**

Project Manager

*A Small Business and Minority Company*

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



## Sample Cross Reference 664900

LT Environmental, Inc., Arvada, CO

PLU 167

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| FS22      | S      | 06.18.2020 14:10 | 4 ft         | 664900-001    |



## CASE NARRATIVE

***Client Name: LT Environmental, Inc.***

***Project Name: PLU 167***

Project ID: 012920078  
Work Order Number(s): 664900

Report Date: 06.22.2020  
Date Received: 06.19.2020

---

**Sample receipt non conformances and comments:**

---

**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 664900

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS22** Matrix: **Soil** Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664900-001 Date Collected: 06.18.2020 14:10 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: **MAB** % Moisture:  
 Analyst: **MAB** Date Prep: 06.19.2020 12:43 Basis: **Wet Weight**  
 Seq Number: 3129569

| Parameter       | Cas Number | Result     | RL   | Units | Analysis Date    | Flag | Dil |
|-----------------|------------|------------|------|-------|------------------|------|-----|
| <b>Chloride</b> | 16887-00-6 | <b>342</b> | 9.94 | mg/kg | 06.19.2020 15:08 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: **DTH** % Moisture:  
 Analyst: **DTH** Date Prep: 06.19.2020 13:30 Basis: **Wet Weight**  
 Seq Number: 3129581

| Parameter                          | Cas Number | Result     | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1      | 50.1 | mg/kg | 06.19.2020 13:49 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>120</b> | 50.1 | mg/kg | 06.19.2020 13:49 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1      | 50.1 | mg/kg | 06.19.2020 13:49 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>120</b> | 50.1 | mg/kg | 06.19.2020 13:49 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>120</b> | 50.1 | mg/kg | 06.19.2020 13:49 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 107        | %     | 70-135 | 06.19.2020 13:49 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 06.19.2020 13:49 |      |



# Certificate of Analytical Results 664900

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: FS22  
Lab Sample Id: 664900-001

Matrix: Soil  
Date Collected: 06.18.2020 14:10

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 10:39

Basis: Wet Weight

Seq Number: 3129552

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.19.2020 14:26 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.19.2020 14:26 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.19.2020 14:26 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.19.2020 14:26 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.19.2020 14:26 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.19.2020 14:26 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.19.2020 14:26 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 98         | %     | 70-130 | 06.19.2020 14:26 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 97         | %     | 70-130 | 06.19.2020 14:26 |      |



## 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.      **ND** Not Detected.

**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.

PLU 167

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

MB Sample Id: 7705814-1-BLK

Matrix: Solid

LCS Sample Id: 7705814-1-BKS

Prep Method: E300P

Date Prep: 06.19.2020

LCSD Sample Id: 7705814-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 253        | 101      | 263         | 105       | 90-110 | 4    | 20        | mg/kg | 06.19.2020 14:15 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

Parent Sample Id: 664898-001

Matrix: Soil

MS Sample Id: 664898-001 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664898-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 10.1          | 200          | 198       | 94      | 199        | 94       | 90-110 | 1    | 20        | mg/kg | 06.19.2020 14:33 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

Parent Sample Id: 664903-004

Matrix: Soil

MS Sample Id: 664903-004 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664903-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 18.6          | 200          | 208       | 95      | 210        | 96       | 90-110 | 1    | 20        | mg/kg | 06.19.2020 15:55 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3129581

MB Sample Id: 7705889-1-BLK

Matrix: Solid

LCS Sample Id: 7705889-1-BKS

Prep Method: SW8015P

Date Prep: 06.19.2020

LCSD Sample Id: 7705889-1-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) | <50.0     | 1000         | 974        | 97       | 974         | 97        | 70-135 | 0    | 35        | mg/kg | 06.19.2020 13:08 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1020       | 102      | 1000        | 100       | 70-135 | 2    | 35        | mg/kg | 06.19.2020 13:08 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 104     |         | 91       |          | 90        |           | 70-135 | %     | 06.19.2020 13:08 |
| o-Terphenyl    | 101     |         | 80       |          | 77        |           | 70-135 | %     | 06.19.2020 13:08 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3129581

Matrix: Solid

MB Sample Id: 7705889-1-BLK

Prep Method: SW8015P

Date Prep: 06.19.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 06.19.2020 12:47 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129581

Parent Sample Id: 664900-001

Matrix: Soil

MS Sample Id: 664900-001 S

Prep Method: SW8015P

Date Prep: 06.19.2020

MSD Sample Id: 664900-001 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) | <50.2         | 1000         | 1140      | 114     | 1150       | 115      | 70-135 | 1    | 35        | mg/kg | 06.19.2020 14:09 |      |
| Diesel Range Organics (DRO)       | 120           | 1000         | 1300      | 118     | 1230       | 111      | 70-135 | 6    | 35        | mg/kg | 06.19.2020 14:09 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 110     |         | 126      |          | 70-135 | %     | 06.19.2020 14:09 |
| o-Terphenyl    | 95      |         | 95       |          | 70-135 | %     | 06.19.2020 14:09 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129552

MB Sample Id: 7705817-1-BLK

Matrix: Solid

LCS Sample Id: 7705817-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705817-1-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        | 0.0878     | 88       | 0.0981      | 98        | 70-130 | 11   | 35        | mg/kg | 06.19.2020 12:29 |      |
| Toluene      | <0.00200  | 0.100        | 0.0887     | 89       | 0.0983      | 98        | 70-130 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0950     | 95       | 0.105       | 105       | 71-129 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.195      | 98       | 0.216       | 108       | 70-135 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0953     | 95       | 0.106       | 106       | 71-133 | 11   | 35        | mg/kg | 06.19.2020 12:29 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 101     |         | 98       |          | 98        |           | 70-130 | %     | 06.19.2020 12:29 |
| 4-Bromofluorobenzene | 108     |         | 102      |          | 98        |           | 70-130 | %     | 06.19.2020 12:29 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129552

Parent Sample Id: 664900-001

Matrix: Soil

MS Sample Id: 664900-001 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664900-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200      | 0.100        | 0.105     | 105     | 0.0990     | 98       | 70-130 | 6    | 35        | mg/kg | 06.19.2020 13:10 |      |
| Toluene      | <0.00200      | 0.100        | 0.105     | 105     | 0.0989     | 98       | 70-130 | 6    | 35        | mg/kg | 06.19.2020 13:10 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.111     | 111     | 0.103      | 102      | 71-129 | 7    | 35        | mg/kg | 06.19.2020 13:10 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.224     | 112     | 0.207      | 102      | 70-135 | 8    | 35        | mg/kg | 06.19.2020 13:10 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.109     | 109     | 0.0990     | 98       | 71-133 | 10   | 35        | mg/kg | 06.19.2020 13:10 |      |

## Surrogate

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 101     |         | 99       |          | 70-130 | %     | 06.19.2020 13:10 |
| 4-Bromofluorobenzene | 101     |         | 101      |          | 70-130 | %     | 06.19.2020 13:10 |

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

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

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

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



## Chain of Custody

Work Order No:

664900

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)

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Page 1 of 1

|                  |                                        |                         |                                |
|------------------|----------------------------------------|-------------------------|--------------------------------|
| Project Manager: | Dan Moir                               | Bill to: (if different) | Kyle Littrell                  |
| Company Name:    | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                     |
| Address:         | 3300 North A Street                    | Address:                | 3104 East Green Street         |
| City, State ZIP: | Midland, TX 79705                      | City, State ZIP:        | Carlsbad, NM 88220             |
| Phone:           | (432) 236-3849                         | Email:                  | slc@ltenv.com, dmoir@ltenv.com |

|                 |            |             |                                     |
|-----------------|------------|-------------|-------------------------------------|
| Project Name:   | PLU 167    | Turn Around |                                     |
| Project Number: | 012920078  | Routine     | <input checked="" type="checkbox"/> |
| P.O. Number:    |            | Rush:       |                                     |
| Sampler's Name: | Spencer Lo | Due Date:   |                                     |

|                       |        |                    |                                                                     |          |                                                                     |
|-----------------------|--------|--------------------|---------------------------------------------------------------------|----------|---------------------------------------------------------------------|
| Temperature (°C):     | 21.1.9 | Temp Blank:        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Received Intact:      | Yes    | Thermometer ID     |                                                                     |          |                                                                     |
| Cooler Custody Seals: | Yes    | Correction Factor: | -0.2                                                                |          |                                                                     |
| Sample Custody Seals: | Yes    | Total Containers:  | 1                                                                   |          |                                                                     |

| SAMPLE RECEIPT        |        |              |              | ANALYSIS REQUEST |                      |                |                   |                      |  |  |  |  |  | Work Order Notes |                                                               |                 |  |  |
|-----------------------|--------|--------------|--------------|------------------|----------------------|----------------|-------------------|----------------------|--|--|--|--|--|------------------|---------------------------------------------------------------|-----------------|--|--|
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth            | Number of Containers |                |                   |                      |  |  |  |  |  |                  | TAT starts the day received by the lab, if received by 4:30pm | Sample Comments |  |  |
| FS22                  | S      | 6-18-2020    | 1410         | 4'               | 1                    | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) |  |  |  |  |  |                  |                                                               |                 |  |  |

|                              |                          |              |                              |                          |              |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|--------------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time    |
|                              |                          | 6/19/20 0820 |                              |                          | 6/19/20 0820 |

**Total 200.7 / 6010 200.8 / 6020:**

Circle Method(s) and Metal(s) to be analyzed: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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 to Xenco. 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.

Revised Date 05/14/18 Rev. 2018.1

## XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06.19.2020 08.30.00 AM

Work Order #: 664900

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 1.9      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

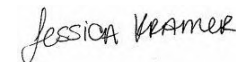
Checklist completed by:



Elizabeth McClellan

Date: 06.19.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.19.2020



# Certificate of Analysis Summary 664902

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.22.2020 12:46

Project Manager: Jessica Kramer

|                                    |                   |                  |  |  |  |  |  |
|------------------------------------|-------------------|------------------|--|--|--|--|--|
| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 664902-001       |  |  |  |  |  |
|                                    | <b>Field Id:</b>  | SW19             |  |  |  |  |  |
|                                    | <b>Depth:</b>     | 0-4 ft           |  |  |  |  |  |
|                                    | <b>Matrix:</b>    | SOIL             |  |  |  |  |  |
|                                    | <b>Sampled:</b>   | 06.18.2020 14:24 |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> | 06.19.2020 10:39 |  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | 06.19.2020 14:46 |  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | 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 |  |  |  |  |  |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> | 06.19.2020 12:43 |  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | 06.19.2020 15:26 |  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         |  |  |  |  |  |
| Chloride                           |                   | 29.7 10.1        |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>           | <b>Extracted:</b> | 06.19.2020 13:30 |  |  |  |  |  |
|                                    | <b>Analyzed:</b>  | 06.19.2020 14:50 |  |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         |  |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.2 50.2       |  |  |  |  |  |
| Diesel Range Organics (DRO)        |                   | <50.2 50.2       |  |  |  |  |  |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.2 50.2       |  |  |  |  |  |
| Total GRO-DRO                      |                   | <50.2 50.2       |  |  |  |  |  |
| Total TPH                          |                   | <50.2 50.2       |  |  |  |  |  |

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

Jessica Kramer  
Project Manager



# Analytical Report 664902

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167**

**012920078**

**06.22.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.22.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **664902**

**PLU 167**

Project Address:

**Dan Moir:**

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) 664902. 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. 664902 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 Manager

*A Small Business and Minority Company*

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



## Sample Cross Reference 664902

LT Environmental, Inc., Arvada, CO

PLU 167

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| SW19      | S      | 06.18.2020 14:24 | 0 - 4 ft     | 664902-001    |



## CASE NARRATIVE

***Client Name: LT Environmental, Inc.***

***Project Name: PLU 167***

Project ID: 012920078  
Work Order Number(s): 664902

Report Date: 06.22.2020  
Date Received: 06.19.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 664902

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW19** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664902-001 Date Collected: 06.18.2020 14:24 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 12:43 Basis: Wet Weight  
 Seq Number: 3129569

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 29.7   | 10.1 | mg/kg | 06.19.2020 15:26 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129581

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.2  | 50.2 | mg/kg | 06.19.2020 14:50 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.2  | 50.2 | mg/kg | 06.19.2020 14:50 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.2  | 50.2 | mg/kg | 06.19.2020 14:50 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.2  | 50.2 | mg/kg | 06.19.2020 14:50 | U    | 1   |
| Total TPH                          | PHC635     | <50.2  | 50.2 | mg/kg | 06.19.2020 14:50 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 06.19.2020 14:50 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 06.19.2020 14:50 |      |



# Certificate of Analytical Results 664902

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW19**  
Lab Sample Id: 664902-001

Matrix: Soil  
Date Collected: 06.18.2020 14:24

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129552

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 10:39

Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 06.19.2020 14:46     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 06.19.2020 14:46     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 06.19.2020 14:46     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 06.19.2020 14:46     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 06.19.2020 14:46     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 06.19.2020 14:46     | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 06.19.2020 14:46     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 104               | %            | 70-130        | 06.19.2020 14:46     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 101               | %            | 70-130        | 06.19.2020 14:46     |             |     |



## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.      **ND** Not Detected.

**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.

PLU 167

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

MB Sample Id: 7705814-1-BLK

Matrix: Solid

LCS Sample Id: 7705814-1-BKS

Prep Method: E300P

Date Prep: 06.19.2020

LCSD Sample Id: 7705814-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 253        | 101      | 263         | 105       | 90-110 | 4    | 20        | mg/kg | 06.19.2020 14:15 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

Parent Sample Id: 664898-001

Matrix: Soil

MS Sample Id: 664898-001 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664898-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 10.1          | 200          | 198       | 94      | 199        | 94       | 90-110 | 1    | 20        | mg/kg | 06.19.2020 14:33 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

Parent Sample Id: 664903-004

Matrix: Soil

MS Sample Id: 664903-004 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664903-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 18.6          | 200          | 208       | 95      | 210        | 96       | 90-110 | 1    | 20        | mg/kg | 06.19.2020 15:55 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3129581

MB Sample Id: 7705889-1-BLK

Matrix: Solid

LCS Sample Id: 7705889-1-BKS

Prep Method: SW8015P

Date Prep: 06.19.2020

LCSD Sample Id: 7705889-1-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) | <50.0     | 1000         | 974        | 97       | 974         | 97        | 70-135 | 0    | 35        | mg/kg | 06.19.2020 13:08 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1020       | 102      | 1000        | 100       | 70-135 | 2    | 35        | mg/kg | 06.19.2020 13:08 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 104     |         | 91       |          | 90        |           | 70-135 | %     | 06.19.2020 13:08 |
| o-Terphenyl    | 101     |         | 80       |          | 77        |           | 70-135 | %     | 06.19.2020 13:08 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3129581

Matrix: Solid

MB Sample Id: 7705889-1-BLK

Prep Method: SW8015P

Date Prep: 06.19.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 06.19.2020 12:47 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129581

Parent Sample Id: 664900-001

Matrix: Soil

MS Sample Id: 664900-001 S

Prep Method: SW8015P

Date Prep: 06.19.2020

MSD Sample Id: 664900-001 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) | <50.2         | 1000         | 1140      | 114     | 1150       | 115      | 70-135 | 1    | 35        | mg/kg | 06.19.2020 14:09 |      |
| Diesel Range Organics (DRO)       | 120           | 1000         | 1300      | 118     | 1230       | 111      | 70-135 | 6    | 35        | mg/kg | 06.19.2020 14:09 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 110     |         | 126      |          | 70-135 | %     | 06.19.2020 14:09 |
| o-Terphenyl    | 95      |         | 95       |          | 70-135 | %     | 06.19.2020 14:09 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129552

MB Sample Id: 7705817-1-BLK

Matrix: Solid

LCS Sample Id: 7705817-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705817-1-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        | 0.0878     | 88       | 0.0981      | 98        | 70-130 | 11   | 35        | mg/kg | 06.19.2020 12:29 |      |
| Toluene      | <0.00200  | 0.100        | 0.0887     | 89       | 0.0983      | 98        | 70-130 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0950     | 95       | 0.105       | 105       | 71-129 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.195      | 98       | 0.216       | 108       | 70-135 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0953     | 95       | 0.106       | 106       | 71-133 | 11   | 35        | mg/kg | 06.19.2020 12:29 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 101     |         | 98       |          | 98        |           | 70-130 | %     | 06.19.2020 12:29 |
| 4-Bromofluorobenzene | 108     |         | 102      |          | 98        |           | 70-130 | %     | 06.19.2020 12:29 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129552

Parent Sample Id: 664900-001

Matrix: Soil

MS Sample Id: 664900-001 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664900-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200      | 0.100        | 0.105     | 105     | 0.0990     | 98       | 70-130 | 6    | 35        | mg/kg | 06.19.2020 13:10 |      |
| Toluene      | <0.00200      | 0.100        | 0.105     | 105     | 0.0989     | 98       | 70-130 | 6    | 35        | mg/kg | 06.19.2020 13:10 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.111     | 111     | 0.103      | 102      | 71-129 | 7    | 35        | mg/kg | 06.19.2020 13:10 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.224     | 112     | 0.207      | 102      | 70-135 | 8    | 35        | mg/kg | 06.19.2020 13:10 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.109     | 109     | 0.0990     | 98       | 71-133 | 10   | 35        | mg/kg | 06.19.2020 13:10 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 101     |         | 99       |          | 70-130 | %     | 06.19.2020 13:10 |
| 4-Bromofluorobenzene | 101     |         | 101      |          | 70-130 | %     | 06.19.2020 13:10 |

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



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  
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 440-9900  
Tucson, AZ (520) 744-4400  
Hobbs, NM (575-392-7550)

## Chain of Custody

Work Order No. 10104500

|                  |                                        |                         |                                                  |
|------------------|----------------------------------------|-------------------------|--------------------------------------------------|
| Project Manager: | Dan Moir                               | Bill to: (if different) | Kyle Littell                                     |
| Company Name:    | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                                       |
| Address:         | 3300 North A Street                    | Address:                | 3104 East Green Street                           |
| City, State ZIP: | Midland, TX 79705                      | City, State ZIP:        | Carlsbad, NM 88220                               |
| Phone:           | (432) 236-3849                         | Email:                  | <a href="mailto:slo@ltenv.com">slo@ltenv.com</a> |
| Project Name:    |                                        |                         |                                                  |

| Work Order Comments                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| <b>Program:</b> UST/PST <input type="checkbox"/> RRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>    |  |  |  |  |  |  |  |  |  |
| <b>State of Project:</b>                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| <b>Reporting Level:</b> II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |  |  |  |  |  |  |  |  |
| <b>Deliverables:</b> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>                                                                      |  |  |  |  |  |  |  |  |  |

|                 |            |                                             |
|-----------------|------------|---------------------------------------------|
| Project Name:   | PLU 167    | Turn Around                                 |
| Project Number: | 012920078  | Routine <input checked="" type="checkbox"/> |
| P.O. Number:    |            | Rush:                                       |
| Sampler's Name: | Spencer Lo | Due Date:                                   |

| SAMPLE RECEIPT        |  | Temp Blank | Yes | No | Wet Ice:           | (Yes) | No |
|-----------------------|--|------------|-----|----|--------------------|-------|----|
| Temperature (°C):     |  | 21.1.9     |     |    | Thermometer ID     |       |    |
| Received Inact:       |  | Yes        | No  |    |                    |       |    |
| Cooler Custody Seals: |  | Yes        | No  |    | Correction Factor: |       |    |
| Sample Custody Seals: |  | Yes        | No  |    | N/A                |       |    |
|                       |  |            |     |    | Total Containers:  |       |    |

[illegible][illegible]

**Total 200.7 / 6010      200.8 / 6020:**

[illegible][illegible]

**6. Xencro's signature or this document and relinquishment of samples constitutes a valid purchase order from client company to Xencro, its affiliates and subcontractors. It assigns standard terms and conditions to Xencro. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencro, but not analyzed. Those terms will be enforced unless previously negotiated.**

| Relinquished by: (Signature)                                                      | Received by: (Signature)                                                          | Date/Time     | Relinquished by: (Signature)                                                        | Received by: (Signature)                                                            | Date/Time     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|
|  |  | 4/14/10 12:00 |  |  | 6/19/20 08:30 |
|                                                                                   |                                                                                   |               |                                                                                     |                                                                                     |               |
|                                                                                   |                                                                                   |               |                                                                                     |                                                                                     |               |
|                                                                                   |                                                                                   |               |                                                                                     |                                                                                     |               |
|                                                                                   |                                                                                   |               |                                                                                     |                                                                                     |               |

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06.19.2020 08.30.00 AM

Work Order #: 664902

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 1.9      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Sample recieved in bulk container.

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

Analyst:

PH Device/Lot#:

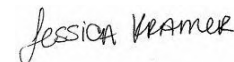
Checklist completed by:



Elizabeth McClellan

Date: 06.19.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.19.2020



# Certificate of Analysis Summary 664903

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.22.2020 12:45

Project Manager: Jessica Kramer

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 664903-001       | 664903-002       | 664903-003       | 664903-004       | 664903-005       | 664903-006       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <i>Field Id:</i>  | SW13             | SW14             | SW15             | SW16             | SW17             | SW18             |
|                                    | <i>Depth:</i>     | 0-4 ft           | 0-4 ft           | 0-4 ft           | 0-4 ft           | 0-4 ft           | 0-4 ft           |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <i>Sampled:</i>   | 06.18.2020 13:50 | 06.18.2020 13:40 | 06.18.2020 13:30 | 06.18.2020 13:20 | 06.18.2020 13:10 | 06.18.2020 13:00 |
| <b>BTEX by EPA 8021</b>            | <i>Extracted:</i> | 06.19.2020 10:39 | 06.19.2020 10:39 | 06.19.2020 10:39 | 06.19.2020 10:39 | 06.19.2020 10:39 | 06.19.2020 10:39 |
|                                    | <i>Analyzed:</i>  | 06.19.2020 15:07 | 06.19.2020 15:27 | 06.19.2020 15:47 | 06.19.2020 16:08 | 06.19.2020 16:28 | 06.19.2020 16:49 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                            |                   | <0.00200 0.00200 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00199 0.00199 |
| Toluene                            |                   | <0.00200 0.00200 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00199 0.00199 |
| Ethylbenzene                       |                   | <0.00200 0.00200 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00199 0.00199 |
| m,p-Xylenes                        |                   | <0.00400 0.00400 | <0.00404 0.00404 | <0.00398 0.00398 | <0.00401 0.00401 | <0.00398 0.00398 | <0.00398 0.00398 |
| o-Xylene                           |                   | <0.00200 0.00200 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00199 0.00199 |
| Total Xylenes                      |                   | <0.00200 0.00200 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00199 0.00199 |
| Total BTEX                         |                   | <0.00200 0.00200 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00199 0.00199 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | 06.19.2020 12:43 | 06.19.2020 12:43 | 06.19.2020 12:43 | 06.19.2020 12:43 | 06.19.2020 12:43 | 06.19.2020 12:43 |
|                                    | <i>Analyzed:</i>  | 06.19.2020 15:32 | 06.19.2020 15:38 | 06.19.2020 15:44 | 06.19.2020 15:50 | 06.19.2020 16:07 | 06.19.2020 16:13 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | 10.3 10.0        | 11.2 10.1        | <10.1 10.1       | 18.6 9.98        | 10.2 9.90        | <10.1 10.1       |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | 06.19.2020 13:30 | 06.19.2020 13:30 | 06.19.2020 13:30 | 06.19.2020 13:30 | 06.19.2020 13:30 | 06.19.2020 13:30 |
|                                    | <i>Analyzed:</i>  | 06.19.2020 15:11 | 06.19.2020 15:32 | 06.19.2020 15:52 | 06.19.2020 16:13 | 06.19.2020 16:34 | 06.19.2020 16:55 |
|                                    | <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)  |                   | <50.3 50.3       | <50.3 50.3       | <50.0 50.0       | <50.1 50.1       | <50.2 50.2       | <50.3 50.3       |
| Diesel Range Organics (DRO)        |                   | <50.3 50.3       | <50.3 50.3       | <50.0 50.0       | 73.9 50.1        | <50.2 50.2       | <50.3 50.3       |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.3 50.3       | <50.3 50.3       | <50.0 50.0       | <50.1 50.1       | <50.2 50.2       | <50.3 50.3       |
| Total GRO-DRO                      |                   | <50.3 50.3       | <50.3 50.3       | <50.0 50.0       | 73.9 50.1        | <50.2 50.2       | <50.3 50.3       |
| Total TPH                          |                   | <50.3 50.3       | <50.3 50.3       | <50.0 50.0       | 73.9 50.1        | <50.2 50.2       | <50.3 50.3       |

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

Jessica Kramer  
Project Manager



# Analytical Report 664903

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167**

**012920078**

**06.22.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.22.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **664903**

**PLU 167**

Project Address:

**Dan Moir:**

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) 664903. 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. 664903 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 Manager

*A Small Business and Minority Company*

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

**Sample Cross Reference 664903****LT Environmental, Inc., Arvada, CO**

PLU 167

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| SW13             | S             | 06.18.2020 13:50      | 0 - 4 ft            | 664903-001           |
| SW14             | S             | 06.18.2020 13:40      | 0 - 4 ft            | 664903-002           |
| SW15             | S             | 06.18.2020 13:30      | 0 - 4 ft            | 664903-003           |
| SW16             | S             | 06.18.2020 13:20      | 0 - 4 ft            | 664903-004           |
| SW17             | S             | 06.18.2020 13:10      | 0 - 4 ft            | 664903-005           |
| SW18             | S             | 06.18.2020 13:00      | 0 - 4 ft            | 664903-006           |



## CASE NARRATIVE

***Client Name: LT Environmental, Inc.***

***Project Name: PLU 167***

Project ID: 012920078  
Work Order Number(s): 664903

Report Date: 06.22.2020  
Date Received: 06.19.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 664903

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW13** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664903-001 Date Collected: 06.18.2020 13:50 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 12:43 Basis: Wet Weight  
 Seq Number: 3129569

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 10.3   | 10.0 | mg/kg | 06.19.2020 15:32 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129581

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.3  | 50.3 | mg/kg | 06.19.2020 15:11 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.3  | 50.3 | mg/kg | 06.19.2020 15:11 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.3  | 50.3 | mg/kg | 06.19.2020 15:11 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.3  | 50.3 | mg/kg | 06.19.2020 15:11 | U    | 1   |
| Total TPH                          | PHC635     | <50.3  | 50.3 | mg/kg | 06.19.2020 15:11 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 103        | %     | 70-135 | 06.19.2020 15:11 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 06.19.2020 15:11 |      |



# Certificate of Analytical Results 664903

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW13**  
Lab Sample Id: 664903-001

Matrix: Soil  
Date Collected: 06.18.2020 13:50

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021

Tech: MAB

Analyst: MAB

Seq Number: 3129552

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 10:39

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.19.2020 15:07 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.19.2020 15:07 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.19.2020 15:07 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.19.2020 15:07 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.19.2020 15:07 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.19.2020 15:07 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.19.2020 15:07 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 103        | %     | 70-130 | 06.19.2020 15:07 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 06.19.2020 15:07 |      |



# Certificate of Analytical Results 664903

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW14** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664903-002 Date Collected: 06.18.2020 13:40 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 12:43 Basis: Wet Weight  
 Seq Number: 3129569

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 11.2   | 10.1 | mg/kg | 06.19.2020 15:38 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129581

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.3  | 50.3 | mg/kg | 06.19.2020 15:32 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.3  | 50.3 | mg/kg | 06.19.2020 15:32 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.3  | 50.3 | mg/kg | 06.19.2020 15:32 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.3  | 50.3 | mg/kg | 06.19.2020 15:32 | U    | 1   |
| Total TPH                          | PHC635     | <50.3  | 50.3 | mg/kg | 06.19.2020 15:32 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 101        | %     | 70-135 | 06.19.2020 15:32 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 06.19.2020 15:32 |      |



# Certificate of Analytical Results 664903

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW14**  
Lab Sample Id: 664903-002

Matrix: Soil  
Date Collected: 06.18.2020 13:40

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021

Tech: MAB

Analyst: MAB

Seq Number: 3129552

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 10:39

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00202 | 0.00202 | mg/kg | 06.19.2020 15:27 | U    | 1   |
| Toluene       | 108-88-3    | <0.00202 | 0.00202 | mg/kg | 06.19.2020 15:27 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00202 | 0.00202 | mg/kg | 06.19.2020 15:27 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 06.19.2020 15:27 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00202 | 0.00202 | mg/kg | 06.19.2020 15:27 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00202 | 0.00202 | mg/kg | 06.19.2020 15:27 | U    | 1   |
| Total BTEX    |             | <0.00202 | 0.00202 | mg/kg | 06.19.2020 15:27 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 103        | %     | 70-130 | 06.19.2020 15:27 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 06.19.2020 15:27 |      |



# Certificate of Analytical Results 664903

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW15** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664903-003 Date Collected: 06.18.2020 13:30 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 12:43 Basis: Wet Weight  
 Seq Number: 3129569

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <10.1  | 10.1 | mg/kg | 06.19.2020 15:44 | U    | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129581

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.19.2020 15:52 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.19.2020 15:52 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.19.2020 15:52 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.19.2020 15:52 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.19.2020 15:52 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 100        | %     | 70-135 | 06.19.2020 15:52 |      |
| o-Terphenyl    | 84-15-1    | 102        | %     | 70-135 | 06.19.2020 15:52 |      |



# Certificate of Analytical Results 664903

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW15**  
Lab Sample Id: 664903-003

Matrix: Soil  
Date Collected: 06.18.2020 13:30

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021

Tech: MAB

Analyst: MAB

Seq Number: 3129552

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 10:39

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 06.19.2020 15:47 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 06.19.2020 15:47 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 06.19.2020 15:47 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.19.2020 15:47 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 06.19.2020 15:47 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 06.19.2020 15:47 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 06.19.2020 15:47 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 70-130 | 06.19.2020 15:47 |      |
| 4-Bromofluorobenzene | 460-00-4   | 103        | %     | 70-130 | 06.19.2020 15:47 |      |



# Certificate of Analytical Results 664903

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW16** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664903-004 Date Collected: 06.18.2020 13:20 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 12:43 Basis: Wet Weight  
 Seq Number: 3129569

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 18.6   | 9.98 | mg/kg | 06.19.2020 15:50 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129581

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1 | mg/kg | 06.19.2020 16:13 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | 73.9   | 50.1 | mg/kg | 06.19.2020 16:13 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1 | mg/kg | 06.19.2020 16:13 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | 73.9   | 50.1 | mg/kg | 06.19.2020 16:13 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | 73.9   | 50.1 | mg/kg | 06.19.2020 16:13 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 102        | %     | 70-135 | 06.19.2020 16:13 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 06.19.2020 16:13 |      |



# Certificate of Analytical Results 664903

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW16**  
Lab Sample Id: 664903-004

Matrix: Soil  
Date Collected: 06.18.2020 13:20

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 10:39

Basis: Wet Weight

Seq Number: 3129552

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.19.2020 16:08 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.19.2020 16:08 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.19.2020 16:08 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.19.2020 16:08 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.19.2020 16:08 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.19.2020 16:08 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.19.2020 16:08 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 105        | %     | 70-130 | 06.19.2020 16:08 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 103        | %     | 70-130 | 06.19.2020 16:08 |      |



# Certificate of Analytical Results 664903

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW17** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664903-005 Date Collected: 06.18.2020 13:10 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 12:43 Basis: Wet Weight  
 Seq Number: 3129569

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 10.2   | 9.90 | mg/kg | 06.19.2020 16:07 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129581

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.2  | 50.2 | mg/kg | 06.19.2020 16:34 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.2  | 50.2 | mg/kg | 06.19.2020 16:34 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.2  | 50.2 | mg/kg | 06.19.2020 16:34 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.2  | 50.2 | mg/kg | 06.19.2020 16:34 | U    | 1   |
| Total TPH                          | PHC635     | <50.2  | 50.2 | mg/kg | 06.19.2020 16:34 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 98         | %     | 70-135 | 06.19.2020 16:34 |      |
| o-Terphenyl    | 84-15-1    | 101        | %     | 70-135 | 06.19.2020 16:34 |      |



# Certificate of Analytical Results 664903

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW17**  
Lab Sample Id: 664903-005

Matrix: Soil  
Date Collected: 06.18.2020 13:10

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021

Tech: MAB

Analyst: MAB

Seq Number: 3129552

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 10:39

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:28 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:28 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:28 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.19.2020 16:28 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:28 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:28 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:28 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 06.19.2020 16:28 |      |
| 4-Bromofluorobenzene | 460-00-4   | 103        | %     | 70-130 | 06.19.2020 16:28 |      |



# Certificate of Analytical Results 664903

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW18** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664903-006 Date Collected: 06.18.2020 13:00 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 12:43 Basis: Wet Weight  
 Seq Number: 3129569

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <10.1  | 10.1 | mg/kg | 06.19.2020 16:13 | U    | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129581

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.3  | 50.3 | mg/kg | 06.19.2020 16:55 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.3  | 50.3 | mg/kg | 06.19.2020 16:55 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.3  | 50.3 | mg/kg | 06.19.2020 16:55 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.3  | 50.3 | mg/kg | 06.19.2020 16:55 | U    | 1   |
| Total TPH                          | PHC635     | <50.3  | 50.3 | mg/kg | 06.19.2020 16:55 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 100        | %     | 70-135 | 06.19.2020 16:55 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 06.19.2020 16:55 |      |



# Certificate of Analytical Results 664903

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW18**  
Lab Sample Id: 664903-006

Matrix: Soil  
Date Collected: 06.18.2020 13:00

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021

Tech: MAB

Analyst: MAB

Seq Number: 3129552

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 10:39

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:49 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:49 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:49 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.19.2020 16:49 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:49 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:49 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 06.19.2020 16:49 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 103        | %     | 70-130 | 06.19.2020 16:49 |      |
| 4-Bromofluorobenzene | 460-00-4   | 107        | %     | 70-130 | 06.19.2020 16:49 |      |



## 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.      **ND** Not Detected.

**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.

PLU 167

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

MB Sample Id: 7705814-1-BLK

Matrix: Solid

LCS Sample Id: 7705814-1-BKS

Prep Method: E300P

Date Prep: 06.19.2020

LCSD Sample Id: 7705814-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 253        | 101      | 263         | 105       | 90-110 | 4    | 20        | mg/kg | 06.19.2020 14:15 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

Parent Sample Id: 664898-001

Matrix: Soil

MS Sample Id: 664898-001 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664898-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 10.1          | 200          | 198       | 94      | 199        | 94       | 90-110 | 1    | 20        | mg/kg | 06.19.2020 14:33 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129569

Parent Sample Id: 664903-004

Matrix: Soil

MS Sample Id: 664903-004 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664903-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 18.6          | 200          | 208       | 95      | 210        | 96       | 90-110 | 1    | 20        | mg/kg | 06.19.2020 15:55 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3129581

MB Sample Id: 7705889-1-BLK

Matrix: Solid

LCS Sample Id: 7705889-1-BKS

Prep Method: SW8015P

Date Prep: 06.19.2020

LCSD Sample Id: 7705889-1-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) | <50.0     | 1000         | 974        | 97       | 974         | 97        | 70-135 | 0    | 35        | mg/kg | 06.19.2020 13:08 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1020       | 102      | 1000        | 100       | 70-135 | 2    | 35        | mg/kg | 06.19.2020 13:08 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 104     |         | 91       |          | 90        |           | 70-135 | %     | 06.19.2020 13:08 |
| o-Terphenyl    | 101     |         | 80       |          | 77        |           | 70-135 | %     | 06.19.2020 13:08 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3129581

Matrix: Solid

MB Sample Id: 7705889-1-BLK

Prep Method: SW8015P

Date Prep: 06.19.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 06.19.2020 12:47 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129581

Parent Sample Id: 664900-001

Matrix: Soil

MS Sample Id: 664900-001 S

Prep Method: SW8015P

Date Prep: 06.19.2020

MSD Sample Id: 664900-001 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) | <50.2         | 1000         | 1140      | 114     | 1150       | 115      | 70-135 | 1    | 35        | mg/kg | 06.19.2020 14:09 |      |
| Diesel Range Organics (DRO)       | 120           | 1000         | 1300      | 118     | 1230       | 111      | 70-135 | 6    | 35        | mg/kg | 06.19.2020 14:09 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 110     |         | 126      |          | 70-135 | %     | 06.19.2020 14:09 |
| o-Terphenyl    | 95      |         | 95       |          | 70-135 | %     | 06.19.2020 14:09 |

## Analytical Method: BTEX by EPA 8021

Seq Number: 3129552

MB Sample Id: 7705817-1-BLK

Matrix: Solid

LCS Sample Id: 7705817-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705817-1-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        | 0.0878     | 88       | 0.0981      | 98        | 70-130 | 11   | 35        | mg/kg | 06.19.2020 12:29 |      |
| Toluene      | <0.00200  | 0.100        | 0.0887     | 89       | 0.0983      | 98        | 70-130 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0950     | 95       | 0.105       | 105       | 71-129 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.195      | 98       | 0.216       | 108       | 70-135 | 10   | 35        | mg/kg | 06.19.2020 12:29 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0953     | 95       | 0.106       | 106       | 71-133 | 11   | 35        | mg/kg | 06.19.2020 12:29 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 101     |         | 98       |          | 98        |           | 70-130 | %     | 06.19.2020 12:29 |
| 4-Bromofluorobenzene | 108     |         | 102      |          | 98        |           | 70-130 | %     | 06.19.2020 12:29 |

## Analytical Method: BTEX by EPA 8021

Seq Number: 3129552

Parent Sample Id: 664900-001

Matrix: Soil

MS Sample Id: 664900-001 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664900-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200      | 0.100        | 0.105     | 105     | 0.0990     | 98       | 70-130 | 6    | 35        | mg/kg | 06.19.2020 13:10 |      |
| Toluene      | <0.00200      | 0.100        | 0.105     | 105     | 0.0989     | 98       | 70-130 | 6    | 35        | mg/kg | 06.19.2020 13:10 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.111     | 111     | 0.103      | 102      | 71-129 | 7    | 35        | mg/kg | 06.19.2020 13:10 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.224     | 112     | 0.207      | 102      | 70-135 | 8    | 35        | mg/kg | 06.19.2020 13:10 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.109     | 109     | 0.0990     | 98       | 71-133 | 10   | 35        | mg/kg | 06.19.2020 13:10 |      |

## Surrogate

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 101     |         | 99       |          | 70-130 | %     | 06.19.2020 13:10 |
| 4-Bromofluorobenzene | 101     |         | 101      |          | 70-130 | %     | 06.19.2020 13:10 |

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

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  
Joplin, MO (417) 685-3333 Albuquerque, NM (505) 242-3333 Phoenix, AZ (602) 955-0000

## Chain of Custody

Work Order No. 144 and 3

|                  |                                        |                         |                                                                                                           |
|------------------|----------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------|
| Project Manager: | Dan Moir                               | Bill to: (if different) | Kyle Littell                                                                                              |
| Company Name:    | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                                                                                                |
| Address:         | 3300 North A Street                    | Address:                | 3104 East Green Street                                                                                    |
| City, State ZIP: | Midland, TX 79705                      | City, State ZIP:        | Carlsbad, NM 88220                                                                                        |
| Phone:           | (432) 236-3849                         | Email:                  | <a href="mailto:sloc@ltenv.com">sloc@ltenv.com</a> , <a href="mailto:dmoir@ltenv.com">dmoir@ltenv.com</a> |
| Project Name:    | P...                                   |                         |                                                                                                           |

| Work Order Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Program:</b> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/><br><b>State of Project:</b><br>Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/><br>Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____ |  |

|                 |            |                                             |
|-----------------|------------|---------------------------------------------|
| Project Name:   | PLU 16/    | Turn Around                                 |
| Project Number: | 012920078  | Routine <input checked="" type="checkbox"/> |
| P.O. Number:    |            | Rush:                                       |
| Sampler's Name: | Spencer Lo | Due Date:                                   |

[illegible]

| SAMPLE RECEIPT        |         | Temp Blank: | Yes | No | Wet Ice:           | Yes | No |
|-----------------------|---------|-------------|-----|----|--------------------|-----|----|
| Temperature (°C):     | 2.1/1.9 |             |     |    |                    |     |    |
| Received Intact:      | Yes     | No          |     |    | Thermometer ID     |     |    |
| Cooler Custody Seals: | Yes     | No          |     |    | Correction Factor: |     |    |
| Sample Custody Seals: | Yes     | No          |     |    | Total Containers:  |     |    |

[illegible][illegible]

|       |              |               |
|-------|--------------|---------------|
| Total | 200.7 / 6010 | 200.8 / 6020: |
|-------|--------------|---------------|

[illegible]

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U  
1631 / 2451 / 2470 / 2474 . U-

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 to Xenco. 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 \$8 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature)                                                      | Received by: (Signature)                                                          | Date/Time     | Relinquished by: (Signature)                                                      | Received by: (Signature)                                                            | Date/Time      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|  |  | 6/19/10 08:14 |  |  | 06/19/20 08:20 |
|                                                                                   |                                                                                   |               |                                                                                   |                                                                                     |                |
|                                                                                   |                                                                                   |               |                                                                                   |                                                                                     |                |
|                                                                                   |                                                                                   |               |                                                                                   |                                                                                     |                |
|                                                                                   |                                                                                   |               |                                                                                   |                                                                                     |                |

## XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06.19.2020 08.30.00 AM

Work Order #: 664903

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 1.9      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

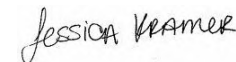
Checklist completed by:



Elizabeth McClellan

Date: 06.19.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.19.2020



# Certificate of Analysis Summary 664910

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.23.2020 08:05

Project Manager: Jessica Kramer

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 664910-001       | 664910-002       | 664910-003       | 664910-004       | 664910-005       | 664910-006       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <i>Field Id:</i>  | FS16             | FS17             | FS18             | FS19             | FS20             | FS21             |
|                                    | <i>Depth:</i>     | 4- ft            | 4- ft            | 4- ft            | 4- ft            | 4- ft            | 4- ft            |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <i>Sampled:</i>   | 06.18.2020 11:10 | 06.18.2020 11:20 | 06.18.2020 11:30 | 06.18.2020 11:40 | 06.18.2020 11:50 | 06.18.2020 14:00 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | 06.19.2020 14:00 | 06.19.2020 14:00 | 06.19.2020 14:00 | 06.19.2020 14:00 | 06.19.2020 14:00 | 06.19.2020 14:00 |
|                                    | <i>Analyzed:</i>  | 06.19.2020 22:39 | 06.19.2020 23:01 | 06.19.2020 23:22 | 06.19.2020 23:44 | 06.20.2020 01:00 | 06.20.2020 01:21 |
|                                    | <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 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00199 0.00199 | <0.00198 0.00198 |
| Toluene                            |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00199 0.00199 | <0.00198 0.00198 |
| Ethylbenzene                       |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00199 0.00199 | <0.00198 0.00198 |
| m,p-Xylenes                        |                   | <0.00404 0.00404 | <0.00401 0.00401 | <0.00398 0.00398 | <0.00395 0.00395 | <0.00398 0.00398 | <0.00396 0.00396 |
| o-Xylene                           |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00199 0.00199 | <0.00198 0.00198 |
| Total Xylenes                      |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00199 0.00199 | <0.00198 0.00198 |
| Total BTEX                         |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00199 0.00199 | <0.00198 0.00198 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | *** ** *         | *** ** *         | *** ** *         | *** ** *         | *** ** *         | *** ** *         |
|                                    | <i>Analyzed:</i>  | 06.19.2020 19:21 | 06.19.2020 19:27 | 06.19.2020 19:45 | 06.19.2020 19:51 | 06.19.2020 19:57 | 06.19.2020 20:02 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | 14.0 10.0        | 12.1 10.0        | 11.2 9.98        | 14.6 9.98        | 13.2 9.94        | <9.96 9.96       |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | 06.19.2020 13:30 | 06.19.2020 13:30 | 06.19.2020 13:30 | 06.19.2020 13:30 | 06.19.2020 13:30 | 06.19.2020 13:30 |
|                                    | <i>Analyzed:</i>  | 06.19.2020 16:34 | 06.19.2020 16:55 | 06.19.2020 17:15 | 06.19.2020 17:36 | 06.19.2020 18:21 | 06.19.2020 18:42 |
|                                    | <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)  |                   | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |
| Diesel Range Organics (DRO)        |                   | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |
| Motor Oil Range Hydrocarbons (MRO) |                   | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |
| Total GRO-DRO                      |                   | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |
| Total TPH                          |                   | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |

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

Jessica Kramer  
Project Manager



# Analytical Report 664910

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167**

**012920078**

**06.23.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.23.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **664910**

**PLU 167**

Project Address:

**Dan Moir:**

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) 664910. 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. 664910 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 Manager

*A Small Business and Minority Company*

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

**Sample Cross Reference 664910****LT Environmental, Inc., Arvada, CO**

PLU 167

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| FS16             | S             | 06.18.2020 11:10      | 4 ft                | 664910-001           |
| FS17             | S             | 06.18.2020 11:20      | 4 ft                | 664910-002           |
| FS18             | S             | 06.18.2020 11:30      | 4 ft                | 664910-003           |
| FS19             | S             | 06.18.2020 11:40      | 4 ft                | 664910-004           |
| FS20             | S             | 06.18.2020 11:50      | 4 ft                | 664910-005           |
| FS21             | S             | 06.18.2020 14:00      | 4 ft                | 664910-006           |



## CASE NARRATIVE

**Client Name:** *LT Environmental, Inc.*

**Project Name:** *PLU 167*

Project ID: 012920078  
Work Order Number(s): 664910

Report Date: 06.23.2020  
Date Received: 06.19.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 664910

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS16**  
Lab Sample Id: 664910-001

Matrix: Soil  
Date Collected: 06.18.2020 11:10

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3129571

Date Prep: 06.18.2020 14:46

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 14.0   | 10.0 | mg/kg | 06.19.2020 19:21 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3129595

Date Prep: 06.19.2020 13:30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 06.19.2020 16:34 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 06.19.2020 16:34 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 06.19.2020 16:34 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.9  | 49.9 | mg/kg | 06.19.2020 16:34 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 06.19.2020 16:34 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 98         | %     | 70-135 | 06.19.2020 16:34 |      |
| o-Terphenyl    | 84-15-1    | 102        | %     | 70-135 | 06.19.2020 16:34 |      |



# Certificate of Analytical Results 664910

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS16**  
Lab Sample Id: 664910-001

Matrix: Soil  
Date Collected: 06.18.2020 11:10

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129616

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 06.19.2020 22:39     | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 06.19.2020 22:39     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 06.19.2020 22:39     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00404          | 0.00404      | mg/kg         | 06.19.2020 22:39     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 06.19.2020 22:39     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 06.19.2020 22:39     | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 06.19.2020 22:39     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 104               | %            | 70-130        | 06.19.2020 22:39     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 100               | %            | 70-130        | 06.19.2020 22:39     |             |     |



# Certificate of Analytical Results 664910

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS17** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664910-002 Date Collected: 06.18.2020 11:20 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.18.2020 14:46 Basis: Wet Weight  
 Seq Number: 3129571

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 12.1   | 10.0 | mg/kg | 06.19.2020 19:27 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129595

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.19.2020 16:55 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.19.2020 16:55 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.19.2020 16:55 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.19.2020 16:55 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.19.2020 16:55 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 99         | %     | 70-135 | 06.19.2020 16:55 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 06.19.2020 16:55 |      |



# Certificate of Analytical Results 664910

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS17**  
Lab Sample Id: 664910-002

Matrix: Soil  
Date Collected: 06.18.2020 11:20

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129616

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.19.2020 23:01 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.19.2020 23:01 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.19.2020 23:01 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.19.2020 23:01 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.19.2020 23:01 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.19.2020 23:01 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.19.2020 23:01 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 107        | %     | 70-130 | 06.19.2020 23:01 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 70-130 | 06.19.2020 23:01 |      |



# Certificate of Analytical Results 664910

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS18** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664910-003 Date Collected: 06.18.2020 11:30 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.18.2020 14:46 Basis: Wet Weight  
 Seq Number: 3129571

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 11.2   | 9.98 | mg/kg | 06.19.2020 19:45 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129595

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 06.19.2020 17:15 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 06.19.2020 17:15 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 06.19.2020 17:15 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.9  | 49.9 | mg/kg | 06.19.2020 17:15 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 06.19.2020 17:15 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 95         | %     | 70-135 | 06.19.2020 17:15 |      |
| o-Terphenyl    | 84-15-1    | 109        | %     | 70-135 | 06.19.2020 17:15 |      |



# Certificate of Analytical Results 664910

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS18**  
Lab Sample Id: 664910-003

Matrix: Soil  
Date Collected: 06.18.2020 11:30

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129616

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 06.19.2020 23:22 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 06.19.2020 23:22 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 06.19.2020 23:22 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.19.2020 23:22 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 06.19.2020 23:22 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 06.19.2020 23:22 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 06.19.2020 23:22 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 103        | %     | 70-130 | 06.19.2020 23:22 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 88         | %     | 70-130 | 06.19.2020 23:22 |      |



# Certificate of Analytical Results 664910

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS19** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664910-004 Date Collected: 06.18.2020 11:40 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.18.2020 14:46 Basis: Wet Weight  
 Seq Number: 3129571

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 14.6   | 9.98 | mg/kg | 06.19.2020 19:51 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129595

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 06.19.2020 17:36 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 06.19.2020 17:36 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 06.19.2020 17:36 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.8  | 49.8 | mg/kg | 06.19.2020 17:36 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 06.19.2020 17:36 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 06.19.2020 17:36 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 06.19.2020 17:36 |      |



# Certificate of Analytical Results 664910

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS19**  
Lab Sample Id: 664910-004

Matrix: Soil  
Date Collected: 06.18.2020 11:40

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129616

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00198 | 0.00198 | mg/kg | 06.19.2020 23:44 | U    | 1   |
| Toluene       | 108-88-3    | <0.00198 | 0.00198 | mg/kg | 06.19.2020 23:44 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00198 | 0.00198 | mg/kg | 06.19.2020 23:44 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00395 | 0.00395 | mg/kg | 06.19.2020 23:44 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00198 | 0.00198 | mg/kg | 06.19.2020 23:44 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00198 | 0.00198 | mg/kg | 06.19.2020 23:44 | U    | 1   |
| Total BTEX    |             | <0.00198 | 0.00198 | mg/kg | 06.19.2020 23:44 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 107        | %     | 70-130 | 06.19.2020 23:44 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 99         | %     | 70-130 | 06.19.2020 23:44 |      |



# Certificate of Analytical Results 664910

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS20** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664910-005 Date Collected: 06.18.2020 11:50 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.18.2020 14:46 Basis: Wet Weight  
 Seq Number: 3129571

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 13.2   | 9.94 | mg/kg | 06.19.2020 19:57 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129595

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.19.2020 18:21 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.19.2020 18:21 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.19.2020 18:21 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.19.2020 18:21 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.19.2020 18:21 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 98         | %     | 70-135 | 06.19.2020 18:21 |      |
| o-Terphenyl    | 84-15-1    | 103        | %     | 70-135 | 06.19.2020 18:21 |      |



# Certificate of Analytical Results 664910

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS20**  
Lab Sample Id: 664910-005

Matrix: Soil  
Date Collected: 06.18.2020 11:50

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129616

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 01:00     | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 01:00     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 01:00     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 06.20.2020 01:00     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 01:00     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 01:00     | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 01:00     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 97                | %            | 70-130        | 06.20.2020 01:00     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 06.20.2020 01:00     |             |     |



# Certificate of Analytical Results 664910

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS21** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664910-006 Date Collected: 06.18.2020 14:00 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.18.2020 14:46 Basis: Wet Weight  
 Seq Number: 3129571

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <9.96  | 9.96 | mg/kg | 06.19.2020 20:02 | U    | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 13:30 Basis: Wet Weight  
 Seq Number: 3129595

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 06.19.2020 18:42 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 06.19.2020 18:42 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 06.19.2020 18:42 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.9  | 49.9 | mg/kg | 06.19.2020 18:42 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 06.19.2020 18:42 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 96         | %     | 70-135 | 06.19.2020 18:42 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 06.19.2020 18:42 |      |



# Certificate of Analytical Results 664910

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS21**  
Lab Sample Id: 664910-006

Matrix: Soil  
Date Collected: 06.18.2020 14:00

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129616

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00198 | 0.00198 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| Toluene       | 108-88-3    | <0.00198 | 0.00198 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00198 | 0.00198 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00198 | 0.00198 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00198 | 0.00198 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| Total BTEX    |             | <0.00198 | 0.00198 | mg/kg | 06.20.2020 01:21 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 95         | %     | 70-130 | 06.20.2020 01:21 |      |
| 4-Bromofluorobenzene | 460-00-4   | 98         | %     | 70-130 | 06.20.2020 01:21 |      |



## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.      **ND** Not Detected.

**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.

PLU 167

## Analytical Method: Chloride by EPA 300

Seq Number: 3129571

MB Sample Id: 7705816-1-BLK

Matrix: Solid

LCS Sample Id: 7705816-1-BKS

Prep Method: E300P

Date Prep: 06.18.2020

LCSD Sample Id: 7705816-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 253        | 101      | 263         | 105       | 90-110 | 4    | 20        | mg/kg | 06.19.2020 17:29 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3129571

Parent Sample Id: 664908-008

Matrix: Soil

MS Sample Id: 664908-008 S

Prep Method: E300P

Date Prep: 06.18.2020

MSD Sample Id: 664908-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 70.0          | 200          | 261       | 96      | 259        | 95       | 90-110 | 1    | 20        | mg/kg | 06.19.2020 17:47 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3129571

Parent Sample Id: 664908-018

Matrix: Soil

MS Sample Id: 664908-018 S

Prep Method: E300P

Date Prep: 06.18.2020

MSD Sample Id: 664908-018 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 212           | 201          | 405       | 96      | 403        | 95       | 90-110 | 0    | 20        | mg/kg | 06.19.2020 19:10 |      |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129595

MB Sample Id: 7705892-1-BLK

Matrix: Solid

LCS Sample Id: 7705892-1-BKS

Prep Method: SW8015P

Date Prep: 06.19.2020

LCSD Sample Id: 7705892-1-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) | <50.0     | 1000         | 1100       | 110      | 1070        | 107       | 70-135 | 3    | 35        | mg/kg | 06.19.2020 13:08 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1170       | 117      | 1120        | 112       | 70-135 | 4    | 35        | mg/kg | 06.19.2020 13:08 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 99      |         | 123      |          | 118       |           | 70-135 | %     | 06.19.2020 13:08 |
| o-Terphenyl    | 102     |         | 102      |          | 97        |           | 70-135 | %     | 06.19.2020 13:08 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129595

Matrix: Solid

MB Sample Id: 7705892-1-BLK

Prep Method: SW8015P

Date Prep: 06.19.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 06.19.2020 12:47 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129595

Parent Sample Id: 664908-013

Matrix: Soil

MS Sample Id: 664908-013 S

Prep Method: SW8015P

Date Prep: 06.19.2020

MSD Sample Id: 664908-013 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) | <50.2         | 1000         | 1060      | 106     | 1080       | 108      | 70-135 | 2    | 35        | mg/kg | 06.19.2020 14:09 |      |
| Diesel Range Organics (DRO)       | <50.2         | 1000         | 920       | 92      | 975        | 98       | 70-135 | 6    | 35        | mg/kg | 06.19.2020 14:09 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 118     |         | 102      |          | 70-135 | %     | 06.19.2020 14:09 |
| o-Terphenyl    | 86      |         | 86       |          | 70-135 | %     | 06.19.2020 14:09 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129616

MB Sample Id: 7705818-1-BLK

Matrix: Solid

LCS Sample Id: 7705818-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705818-1-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        | 0.107      | 107      | 0.108       | 108       | 70-130 | 1    | 35        | mg/kg | 06.19.2020 18:32 |      |
| Toluene      | <0.00200  | 0.100        | 0.0998     | 100      | 0.107       | 107       | 70-130 | 7    | 35        | mg/kg | 06.19.2020 18:32 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0929     | 93       | 0.102       | 102       | 71-129 | 9    | 35        | mg/kg | 06.19.2020 18:32 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.189      | 95       | 0.208       | 104       | 70-135 | 10   | 35        | mg/kg | 06.19.2020 18:32 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0941     | 94       | 0.103       | 103       | 71-133 | 9    | 35        | mg/kg | 06.19.2020 18:32 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 99      |         | 100      |          | 101       |           | 70-130 | %     | 06.19.2020 18:32 |
| 4-Bromofluorobenzene | 95      |         | 103      |          | 100       |           | 70-130 | %     | 06.19.2020 18:32 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129616

Parent Sample Id: 664908-013

Matrix: Soil

MS Sample Id: 664908-013 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664908-013 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       | 0.116     | 117     | 0.111      | 111      | 70-130 | 4    | 35        | mg/kg | 06.19.2020 19:15 |      |
| Toluene      | <0.00199      | 0.0994       | 0.114     | 115     | 0.109      | 109      | 70-130 | 4    | 35        | mg/kg | 06.19.2020 19:15 |      |
| Ethylbenzene | <0.00199      | 0.0994       | 0.110     | 111     | 0.106      | 106      | 71-129 | 4    | 35        | mg/kg | 06.19.2020 19:15 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.226     | 114     | 0.216      | 108      | 70-135 | 5    | 35        | mg/kg | 06.19.2020 19:15 |      |
| o-Xylene     | <0.00199      | 0.0994       | 0.111     | 112     | 0.106      | 106      | 71-133 | 5    | 35        | mg/kg | 06.19.2020 19:15 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 101     |         | 100      |          | 70-130 | %     | 06.19.2020 19:15 |
| 4-Bromofluorobenzene | 105     |         | 104      |          | 70-130 | %     | 06.19.2020 19:15 |

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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 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

# Chain of Custody

Work Order No: 1664910

|                  |                                        |                         |                                |
|------------------|----------------------------------------|-------------------------|--------------------------------|
| Project Manager: | Dan Moir                               | Bill to: (if different) | Kyle Littrell                  |
| Company Name:    | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                     |
| Address:         | 3300 North A Street                    | Address:                | 3104 East Green Street         |
| City, State ZIP: | Midland, TX 79705                      | City, State ZIP:        | Carlsbad, NM 88220             |
| Phone:           | (432) 236-3849                         | Email:                  | slc@ltenv.com, dmoir@ltenv.com |

|                 |            |             |                                     |
|-----------------|------------|-------------|-------------------------------------|
| Project Name:   | PLU 167    | Turn Around |                                     |
| Project Number: | 012920078  | Routine     | <input checked="" type="checkbox"/> |
| P.O. Number:    |            | Rush:       |                                     |
| Sampler's Name: | Spencer Lo | Due Date:   | 6/19/20                             |

|                       |             |                |                         |          |     |    |
|-----------------------|-------------|----------------|-------------------------|----------|-----|----|
| <b>SAMPLE RECEIPT</b> | Temp Blank: | Yes            | No                      | Wet Ice: | Yes | No |
| Temperature (°C):     | 2.11        | Thermometer ID |                         |          |     |    |
| Received intact:      | Yes         | No             | Correction Factor: -0.2 |          |     |    |
| Cooler Custody Seals: | Yes         | No             | Total Containers: 6     |          |     |    |
| Sample Custody Seals: | Yes         | No             |                         |          |     |    |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | ANALYSIS REQUEST     |                |                   |                      |  |  |  |  |  |  | Work Order Notes |
|-----------------------|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|--|--|--|--|--|--|------------------|
|                       |        |              |              |       | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) |  |  |  |  |  |  |                  |
| FS16                  | S      | 6-18-2020    | 1110         | 4'    | 1                    | X              | X                 | X                    |  |  |  |  |  |  |                  |
| FS17                  | S      | 6-18-2020    | 1120         | 4'    | 1                    | X              | X                 | X                    |  |  |  |  |  |  |                  |
| FS18                  | S      | 6-18-2020    | 1130         | 4'    | 1                    | X              | X                 | X                    |  |  |  |  |  |  |                  |
| FS19                  | S      | 6-18-2020    | 1140         | 4'    | 1                    | X              | X                 | X                    |  |  |  |  |  |  |                  |
| FS20                  | S      | 6-18-2020    | 1150         | 4'    | 1                    | X              | X                 | X                    |  |  |  |  |  |  |                  |
| FS21                  | S      | 6-18-2020    | 1400         | 4'    | 1                    | X              | X                 | X                    |  |  |  |  |  |  |                  |

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

|                              |                          |              |                              |                          |              |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|--------------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time    |
| <i>[Signature]</i>           | <i>[Signature]</i>       | 6/19/20 1517 | <i>[Signature]</i>           | <i>[Signature]</i>       | 6/19/20 1830 |
|                              |                          |              |                              |                          | 6/19/20      |

## XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06.19.2020 08.30.00 AM

Work Order #: 664910

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 1.9      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Samples recieved in bulk containers.

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

Analyst:

PH Device/Lot#:

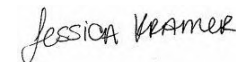
Checklist completed by:



Elizabeth McClellan

Date: 06.19.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.19.2020



# Certificate of Analysis Summary 664913

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.23.2020 08:03

Project Manager: Jessica Kramer

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 664913-001       | 664913-002       | 664913-003       | 664913-004       | 664913-005       | 664913-006       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <i>Field Id:</i>  | FS01             | FS02             | FS03             | FS04             | FS05             | FS06             |
|                                    | <i>Depth:</i>     | 2- ft            | 2- ft            | 2- ft            | 2- ft            | 2- ft            | 2- ft            |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <i>Sampled:</i>   | 06.16.2020 13:30 | 06.16.2020 13:40 | 06.16.2020 13:50 | 06.16.2020 14:00 | 06.16.2020 14:10 | 06.16.2020 14:20 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | 06.19.2020 16:07 | 06.19.2020 16:07 | 06.19.2020 16:07 | 06.19.2020 16:07 | 06.19.2020 16:07 | 06.19.2020 16:07 |
|                                    | <i>Analyzed:</i>  | 06.20.2020 14:40 | 06.20.2020 15:01 | 06.20.2020 16:16 | 06.20.2020 16:37 | 06.20.2020 16:57 | 06.20.2020 17:18 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                            |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00198 0.00198 |
| Toluene                            |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00198 0.00198 |
| Ethylbenzene                       |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00198 0.00198 |
| m,p-Xylenes                        |                   | <0.00402 0.00402 | <0.00400 0.00400 | <0.00399 0.00399 | <0.00400 0.00400 | <0.00401 0.00401 | <0.00397 0.00397 |
| o-Xylene                           |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00198 0.00198 |
| Total Xylenes                      |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00198 0.00198 |
| Total BTEX                         |                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00198 0.00198 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | 06.19.2020 17:15 | 06.19.2020 17:15 | 06.19.2020 17:15 | 06.19.2020 17:15 | 06.19.2020 17:15 | 06.19.2020 17:15 |
|                                    | <i>Analyzed:</i>  | 06.19.2020 22:59 | 06.19.2020 23:04 | 06.19.2020 23:10 | 06.19.2020 23:16 | 06.19.2020 23:22 | 06.19.2020 23:28 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | <10.1 10.1       | 18.1 10.0        | 10.6 10.1        | 39.4 10.0        | 59.2 9.92        | 309 9.96         |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | 06.19.2020 18:25 | 06.19.2020 18:25 | 06.19.2020 18:25 | 06.19.2020 18:25 | 06.19.2020 18:25 | 06.19.2020 18:25 |
|                                    | <i>Analyzed:</i>  | 06.20.2020 03:14 | 06.20.2020 03:34 | 06.20.2020 04:15 | 06.20.2020 04:35 | 06.20.2020 04:56 | 06.20.2020 05:16 |
|                                    | <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)  |                   | <50.1 50.1       | <50.0 50.0       | <50.0 50.0       | <49.8 49.8       | <49.8 49.8       | <50.0 50.0       |
| Diesel Range Organics (DRO)        |                   | <50.1 50.1       | <50.0 50.0       | <50.0 50.0       | <49.8 49.8       | <49.8 49.8       | 57.6 50.0        |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.1 50.1       | <50.0 50.0       | <50.0 50.0       | <49.8 49.8       | <49.8 49.8       | <50.0 50.0       |
| Total GRO-DRO                      |                   | <50.1 50.1       | <50.0 50.0       | <50.0 50.0       | <49.8 49.8       | <49.8 49.8       | 57.6 50.0        |
| Total TPH                          |                   | <50.1 50.1       | <50.0 50.0       | <50.0 50.0       | <49.8 49.8       | <49.8 49.8       | 57.6 50.0        |

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

Jessica Kramer  
Project Manager



# Certificate of Analysis Summary 664913

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.23.2020 08:03

Project Manager: Jessica Kramer

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 664913-007       | 664913-008       | 664913-009       | 664913-010       | 664913-011       | 664913-012       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <i>Field Id:</i>  | FS07             | FS08             | FS09             | FS10             | FS11             | FS12             |
|                                    | <i>Depth:</i>     | 1- ft            | 2- ft            | 2- ft            | 2- ft            | 2- ft            | 2- ft            |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <i>Sampled:</i>   | 06.16.2020 14:30 | 06.17.2020 12:05 | 06.17.2020 12:15 | 06.17.2020 12:25 | 06.17.2020 13:30 | 06.17.2020 13:40 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | 06.19.2020 16:07 | 06.19.2020 16:07 | 06.19.2020 16:07 | 06.19.2020 16:07 | 06.19.2020 16:07 | 06.19.2020 16:07 |
|                                    | <i>Analyzed:</i>  | 06.20.2020 17:38 | 06.20.2020 17:59 | 06.20.2020 18:19 | 06.20.2020 18:39 | 06.20.2020 19:00 | 06.20.2020 19:20 |
|                                    | <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 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 |
| Toluene                            |                   | <0.00199 0.00199 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 |
| Ethylbenzene                       |                   | <0.00199 0.00199 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 |
| m,p-Xylenes                        |                   | <0.00398 0.00398 | <0.00398 0.00398 | <0.00400 0.00400 | <0.00401 0.00401 | <0.00398 0.00398 | <0.00396 0.00396 |
| o-Xylene                           |                   | <0.00199 0.00199 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 |
| Total Xylenes                      |                   | <0.00199 0.00199 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 |
| Total BTEX                         |                   | <0.00199 0.00199 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00198 0.00198 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | 06.19.2020 17:15 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 |
|                                    | <i>Analyzed:</i>  | 06.19.2020 23:34 | 06.20.2020 00:09 | 06.20.2020 00:27 | 06.20.2020 00:32 | 06.20.2020 00:38 | 06.20.2020 00:44 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | 25.8 9.98        | 699 9.92         | 168 10.0         | 55.1 10.1        | 25.3 10.1        | 96.3 10.0        |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | 06.19.2020 18:25 | 06.19.2020 18:25 | 06.19.2020 18:25 | 06.19.2020 18:25 | 06.19.2020 18:25 | 06.19.2020 18:25 |
|                                    | <i>Analyzed:</i>  | 06.20.2020 05:37 | 06.20.2020 05:57 | 06.20.2020 06:18 | 06.20.2020 06:38 | 06.20.2020 06:59 | 06.20.2020 07:19 |
|                                    | <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)  |                   | <50.0 50.0       | <49.9 49.9       | <49.9 49.9       | <49.8 49.8       | <49.8 49.8       | <50.0 50.0       |
| Diesel Range Organics (DRO)        |                   | <50.0 50.0       | 122 49.9         | <49.9 49.9       | <49.8 49.8       | 121 49.8         | 62.3 50.0        |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.0 50.0       | <49.9 49.9       | <49.9 49.9       | <49.8 49.8       | <49.8 49.8       | <50.0 50.0       |
| Total GRO-DRO                      |                   | <50.0 50.0       | 122 49.9         | <49.9 49.9       | <49.8 49.8       | 121 49.8         | 62.3 50.0        |
| Total TPH                          |                   | <50.0 50.0       | 122 49.9         | <49.9 49.9       | <49.8 49.8       | 121 49.8         | 62.3 50.0        |

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 Manager



# Certificate of Analysis Summary 664913

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.23.2020 08:03

Project Manager: Jessica Kramer

| Analysis Requested                 | Lab Id:                           | 664913-013       | 664913-014       | 664913-015       |  |  |  |
|------------------------------------|-----------------------------------|------------------|------------------|------------------|--|--|--|
|                                    | Field Id:                         | FS13             | FS14             | FS15             |  |  |  |
|                                    | Depth:                            | 4- ft            | 4- ft            | 4- ft            |  |  |  |
|                                    | Matrix:                           | SOIL             | SOIL             | SOIL             |  |  |  |
|                                    | Sampled:                          | 06.17.2020 13:50 | 06.17.2020 14:00 | 06.17.2020 14:10 |  |  |  |
| BTEX by EPA 8021B                  | Extracted:                        | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 |  |  |  |
|                                    | Analyzed:                         | 06.20.2020 01:21 | 06.20.2020 03:03 | 06.20.2020 03:24 |  |  |  |
|                                    | Units/RL:                         | mg/kg RL         | mg/kg RL         | mg/kg RL         |  |  |  |
|                                    | Benzene                           | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 |  |  |  |
|                                    | Toluene                           | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 |  |  |  |
| Ethylbenzene                       |                                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 |  |  |  |
| m,p-Xylenes                        |                                   | <0.00402 0.00402 | <0.00400 0.00400 | <0.00402 0.00402 |  |  |  |
| o-Xylene                           |                                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 |  |  |  |
| Total Xylenes                      |                                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 |  |  |  |
| Total BTEX                         |                                   | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 |  |  |  |
| Chloride by EPA 300                | Extracted:                        | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 |  |  |  |
|                                    | Analyzed:                         | 06.20.2020 01:02 | 06.20.2020 01:08 | 06.20.2020 01:14 |  |  |  |
|                                    | Units/RL:                         | mg/kg RL         | mg/kg RL         | mg/kg RL         |  |  |  |
|                                    | Chloride                          | 10.8 9.98        | <9.96 9.96       | 15.8 9.94        |  |  |  |
|                                    |                                   |                  |                  |                  |  |  |  |
| TPH by SW8015 Mod                  | Extracted:                        | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 |  |  |  |
|                                    | Analyzed:                         | 06.19.2020 23:50 | 06.20.2020 00:51 | 06.20.2020 01:11 |  |  |  |
|                                    | Units/RL:                         | mg/kg RL         | mg/kg RL         | mg/kg RL         |  |  |  |
|                                    | Gasoline Range Hydrocarbons (GRO) | <50.3 50.3       | <49.8 49.8       | <50.0 50.0       |  |  |  |
|                                    | Diesel Range Organics (DRO)       | 96.9 50.3        | 78.1 49.8        | <50.0 50.0       |  |  |  |
| Motor Oil Range Hydrocarbons (MRO) |                                   | <50.3 50.3       | <49.8 49.8       | <50.0 50.0       |  |  |  |
| Total GRO-DRO                      |                                   | 96.9 50.3        | 78.1 49.8        | <50.0 50.0       |  |  |  |
| Total TPH                          |                                   | 96.9 50.3        | 78.1 49.8        | <50.0 50.0       |  |  |  |

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Jessica Kramer  
Project Manager



# Analytical Report 664913

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167**

**012920078**

**06.23.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.23.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **664913**

**PLU 167**

Project Address:

**Dan Moir:**

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) 664913. 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. 664913 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'. The signature is written in a cursive, flowing style.

---

**Jessica Kramer**

Project Manager

*A Small Business and Minority Company*

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

**Sample Cross Reference 664913****LT Environmental, Inc., Arvada, CO**

PLU 167

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| FS01             | S             | 06.16.2020 13:30      | 2 ft                | 664913-001           |
| FS02             | S             | 06.16.2020 13:40      | 2 ft                | 664913-002           |
| FS03             | S             | 06.16.2020 13:50      | 2 ft                | 664913-003           |
| FS04             | S             | 06.16.2020 14:00      | 2 ft                | 664913-004           |
| FS05             | S             | 06.16.2020 14:10      | 2 ft                | 664913-005           |
| FS06             | S             | 06.16.2020 14:20      | 2 ft                | 664913-006           |
| FS07             | S             | 06.16.2020 14:30      | 1 ft                | 664913-007           |
| FS08             | S             | 06.17.2020 12:05      | 2 ft                | 664913-008           |
| FS09             | S             | 06.17.2020 12:15      | 2 ft                | 664913-009           |
| FS10             | S             | 06.17.2020 12:25      | 2 ft                | 664913-010           |
| FS11             | S             | 06.17.2020 13:30      | 2 ft                | 664913-011           |
| FS12             | S             | 06.17.2020 13:40      | 2 ft                | 664913-012           |
| FS13             | S             | 06.17.2020 13:50      | 4 ft                | 664913-013           |
| FS14             | S             | 06.17.2020 14:00      | 4 ft                | 664913-014           |
| FS15             | S             | 06.17.2020 14:10      | 4 ft                | 664913-015           |



## CASE NARRATIVE

**Client Name:** *LT Environmental, Inc.*

**Project Name:** *PLU 167*

Project ID: 012920078  
Work Order Number(s): 664913

Report Date: 06.23.2020  
Date Received: 06.19.2020

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### **Sample receipt non conformances and comments:**

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### **Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS01** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-001 Date Collected: 06.16.2020 13:30 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 17:15 Basis: Wet Weight  
 Seq Number: 3129576

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <10.1  | 10.1 | mg/kg | 06.19.2020 22:59 | U    | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1 | mg/kg | 06.20.2020 03:14 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1 | mg/kg | 06.20.2020 03:14 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1 | mg/kg | 06.20.2020 03:14 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.1  | 50.1 | mg/kg | 06.20.2020 03:14 | U    | 1   |
| Total TPH                          | PHC635     | <50.1  | 50.1 | mg/kg | 06.20.2020 03:14 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 06.20.2020 03:14 |      |
| o-Terphenyl    | 84-15-1    | 86         | %     | 70-135 | 06.20.2020 03:14 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS01**  
Lab Sample Id: 664913-001

Matrix: Soil  
Date Collected: 06.16.2020 13:30

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129555

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 14:40 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 14:40 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 14:40 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.20.2020 14:40 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 14:40 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 06.20.2020 14:40 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 06.20.2020 14:40 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 93         | %     | 70-130 | 06.20.2020 14:40 |      |
| 4-Bromofluorobenzene | 460-00-4   | 93         | %     | 70-130 | 06.20.2020 14:40 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS02** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-002 Date Collected: 06.16.2020 13:40 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 17:15 Basis: Wet Weight  
 Seq Number: 3129576

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 18.1   | 10.0 | mg/kg | 06.19.2020 23:04 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 06.20.2020 03:34 |      |
| o-Terphenyl    | 84-15-1    | 108        | %     | 70-135 | 06.20.2020 03:34 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS02**  
Lab Sample Id: 664913-002

Matrix: Soil  
Date Collected: 06.16.2020 13:40

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129555

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 15:01 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 15:01 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 15:01 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.20.2020 15:01 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 15:01 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.20.2020 15:01 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.20.2020 15:01 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 103        | %     | 70-130 | 06.20.2020 15:01 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 06.20.2020 15:01 |      |



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS03** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-003 Date Collected: 06.16.2020 13:50 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 17:15 Basis: Wet Weight  
 Seq Number: 3129576

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 10.6   | 10.1 | mg/kg | 06.19.2020 23:10 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.20.2020 04:15 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.20.2020 04:15 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.20.2020 04:15 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.20.2020 04:15 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.20.2020 04:15 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 109        | %     | 70-135 | 06.20.2020 04:15 |      |
| o-Terphenyl    | 84-15-1    | 108        | %     | 70-135 | 06.20.2020 04:15 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS03**  
Lab Sample Id: 664913-003

Matrix: Soil  
Date Collected: 06.16.2020 13:50

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

Seq Number: 3129555

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:16 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:16 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:16 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.20.2020 16:16 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:16 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:16 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:16 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 99         | %     | 70-130 | 06.20.2020 16:16 |      |
| 4-Bromofluorobenzene | 460-00-4   | 99         | %     | 70-130 | 06.20.2020 16:16 |      |



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS04** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-004 Date Collected: 06.16.2020 14:00 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 17:15 Basis: Wet Weight  
 Seq Number: 3129576

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 39.4   | 10.0 | mg/kg | 06.19.2020 23:16 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 06.20.2020 04:35 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 06.20.2020 04:35 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 06.20.2020 04:35 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.8  | 49.8 | mg/kg | 06.20.2020 04:35 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 06.20.2020 04:35 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 06.20.2020 04:35 |      |
| o-Terphenyl    | 84-15-1    | 108        | %     | 70-135 | 06.20.2020 04:35 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS04**  
Lab Sample Id: 664913-004

Matrix: Soil  
Date Collected: 06.16.2020 14:00

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

Seq Number: 3129555

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:37 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:37 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:37 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.20.2020 16:37 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:37 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:37 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:37 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 94         | %     | 70-130 | 06.20.2020 16:37 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 97         | %     | 70-130 | 06.20.2020 16:37 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS05** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-005 Date Collected: 06.16.2020 14:10 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 17:15 Basis: Wet Weight  
 Seq Number: 3129576

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 59.2   | 9.92 | mg/kg | 06.19.2020 23:22 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 06.20.2020 04:56 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 06.20.2020 04:56 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 06.20.2020 04:56 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.8  | 49.8 | mg/kg | 06.20.2020 04:56 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 06.20.2020 04:56 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 111        | %     | 70-135 | 06.20.2020 04:56 |      |
| o-Terphenyl    | 84-15-1    | 109        | %     | 70-135 | 06.20.2020 04:56 |      |



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS05**  
Lab Sample Id: 664913-005

Matrix: Soil  
Date Collected: 06.16.2020 14:10

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129555

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:57 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:57 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:57 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.20.2020 16:57 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:57 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:57 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.20.2020 16:57 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 105        | %     | 70-130 | 06.20.2020 16:57 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 99         | %     | 70-130 | 06.20.2020 16:57 |      |



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS06** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-006 Date Collected: 06.16.2020 14:20 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 17:15 Basis: Wet Weight  
 Seq Number: 3129576

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 309    | 9.96 | mg/kg | 06.19.2020 23:28 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.20.2020 05:16 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | 57.6   | 50.0 | mg/kg | 06.20.2020 05:16 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.20.2020 05:16 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | 57.6   | 50.0 | mg/kg | 06.20.2020 05:16 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | 57.6   | 50.0 | mg/kg | 06.20.2020 05:16 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 108        | %     | 70-135 | 06.20.2020 05:16 |      |
| o-Terphenyl    | 84-15-1    | 110        | %     | 70-135 | 06.20.2020 05:16 |      |



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS06**  
Lab Sample Id: 664913-006

Matrix: Soil  
Date Collected: 06.16.2020 14:20

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129555

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 06.20.2020 17:18     | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 06.20.2020 17:18     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 06.20.2020 17:18     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 06.20.2020 17:18     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 06.20.2020 17:18     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 06.20.2020 17:18     | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 06.20.2020 17:18     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 105               | %            | 70-130        | 06.20.2020 17:18     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 06.20.2020 17:18     |             |     |



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS07** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-007 Date Collected: 06.16.2020 14:30 Sample Depth: 1 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 17:15 Basis: Wet Weight  
 Seq Number: 3129576

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 25.8   | 9.98 | mg/kg | 06.19.2020 23:34 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.20.2020 05:37 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.20.2020 05:37 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.20.2020 05:37 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.20.2020 05:37 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.20.2020 05:37 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 106        | %     | 70-135 | 06.20.2020 05:37 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 06.20.2020 05:37 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS07**  
Lab Sample Id: 664913-007

Matrix: Soil  
Date Collected: 06.16.2020 14:30

Date Received: 06.19.2020 08:30  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129555

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:38 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:38 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:38 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.20.2020 17:38 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:38 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:38 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:38 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 70-130 | 06.20.2020 17:38 |      |
| 4-Bromofluorobenzene | 460-00-4   | 105        | %     | 70-130 | 06.20.2020 17:38 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS08** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-008 Date Collected: 06.17.2020 12:05 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 699    | 9.92 | mg/kg | 06.20.2020 00:09 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 06.20.2020 05:57 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | 122    | 49.9 | mg/kg | 06.20.2020 05:57 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 06.20.2020 05:57 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | 122    | 49.9 | mg/kg | 06.20.2020 05:57 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | 122    | 49.9 | mg/kg | 06.20.2020 05:57 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 112        | %     | 70-135 | 06.20.2020 05:57 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 06.20.2020 05:57 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS08**  
Lab Sample Id: 664913-008

Matrix: Soil  
Date Collected: 06.17.2020 12:05

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129555

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:59 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:59 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:59 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.20.2020 17:59 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:59 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:59 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 06.20.2020 17:59 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 103        | %     | 70-130 | 06.20.2020 17:59 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 70-130 | 06.20.2020 17:59 |      |



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS09** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-009 Date Collected: 06.17.2020 12:15 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 168    | 10.0 | mg/kg | 06.20.2020 00:27 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 06.20.2020 06:18 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 06.20.2020 06:18 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 06.20.2020 06:18 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.9  | 49.9 | mg/kg | 06.20.2020 06:18 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 06.20.2020 06:18 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 108        | %     | 70-135 | 06.20.2020 06:18 |      |
| o-Terphenyl    | 84-15-1    | 85         | %     | 70-135 | 06.20.2020 06:18 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS09**  
Lab Sample Id: 664913-009

Matrix: Soil  
Date Collected: 06.17.2020 12:15

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

Seq Number: 3129555

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:19 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:19 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:19 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.20.2020 18:19 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:19 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:19 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:19 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 107        | %     | 70-130 | 06.20.2020 18:19 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 100        | %     | 70-130 | 06.20.2020 18:19 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS10** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-010 Date Collected: 06.17.2020 12:25 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 55.1   | 10.1 | mg/kg | 06.20.2020 00:32 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 06.20.2020 06:38 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 06.20.2020 06:38 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 06.20.2020 06:38 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.8  | 49.8 | mg/kg | 06.20.2020 06:38 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 06.20.2020 06:38 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 06.20.2020 06:38 |      |
| o-Terphenyl    | 84-15-1    | 70         | %     | 70-135 | 06.20.2020 06:38 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS10**  
Lab Sample Id: 664913-010

Matrix: Soil  
Date Collected: 06.17.2020 12:25

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129555

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:39 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:39 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:39 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.20.2020 18:39 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:39 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:39 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.20.2020 18:39 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 99         | %     | 70-130 | 06.20.2020 18:39 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 96         | %     | 70-130 | 06.20.2020 18:39 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS11** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-011 Date Collected: 06.17.2020 13:30 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 25.3   | 10.1 | mg/kg | 06.20.2020 00:38 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result     | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8      | 49.8 | mg/kg | 06.20.2020 06:59 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>121</b> | 49.8 | mg/kg | 06.20.2020 06:59 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8      | 49.8 | mg/kg | 06.20.2020 06:59 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>121</b> | 49.8 | mg/kg | 06.20.2020 06:59 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>121</b> | 49.8 | mg/kg | 06.20.2020 06:59 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 108        | %     | 70-135 | 06.20.2020 06:59 |      |
| o-Terphenyl    | 84-15-1    | 71         | %     | 70-135 | 06.20.2020 06:59 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS11**  
Lab Sample Id: 664913-011

Matrix: Soil  
Date Collected: 06.17.2020 13:30

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129555

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 06.20.2020 19:00 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 06.20.2020 19:00 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 06.20.2020 19:00 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.20.2020 19:00 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 06.20.2020 19:00 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 06.20.2020 19:00 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 06.20.2020 19:00 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 101        | %     | 70-130 | 06.20.2020 19:00 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 104        | %     | 70-130 | 06.20.2020 19:00 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS12** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-012 Date Collected: 06.17.2020 13:40 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 96.3   | 10.0 | mg/kg | 06.20.2020 00:44 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:25 Basis: Wet Weight  
 Seq Number: 3129586

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0       | 50.0 | mg/kg | 06.20.2020 07:19 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>62.3</b> | 50.0 | mg/kg | 06.20.2020 07:19 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0       | 50.0 | mg/kg | 06.20.2020 07:19 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>62.3</b> | 50.0 | mg/kg | 06.20.2020 07:19 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>62.3</b> | 50.0 | mg/kg | 06.20.2020 07:19 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 109        | %     | 70-135 | 06.20.2020 07:19 |      |
| o-Terphenyl    | 84-15-1    | 72         | %     | 70-135 | 06.20.2020 07:19 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS12**  
Lab Sample Id: 664913-012

Matrix: Soil  
Date Collected: 06.17.2020 13:40

Date Received: 06.19.2020 08:30  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 16:07

Basis: Wet Weight

Seq Number: 3129555

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00198 | 0.00198 | mg/kg | 06.20.2020 19:20 | U    | 1   |
| Toluene       | 108-88-3    | <0.00198 | 0.00198 | mg/kg | 06.20.2020 19:20 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00198 | 0.00198 | mg/kg | 06.20.2020 19:20 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 06.20.2020 19:20 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00198 | 0.00198 | mg/kg | 06.20.2020 19:20 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00198 | 0.00198 | mg/kg | 06.20.2020 19:20 | U    | 1   |
| Total BTEX    |             | <0.00198 | 0.00198 | mg/kg | 06.20.2020 19:20 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 106        | %     | 70-130 | 06.20.2020 19:20 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 94         | %     | 70-130 | 06.20.2020 19:20 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS13** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-013 Date Collected: 06.17.2020 13:50 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 10.8   | 9.98 | mg/kg | 06.20.2020 01:02 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.3  | 50.3 | mg/kg | 06.19.2020 23:50 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | 96.9   | 50.3 | mg/kg | 06.19.2020 23:50 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.3  | 50.3 | mg/kg | 06.19.2020 23:50 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | 96.9   | 50.3 | mg/kg | 06.19.2020 23:50 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | 96.9   | 50.3 | mg/kg | 06.19.2020 23:50 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 102        | %     | 70-135 | 06.19.2020 23:50 |      |
| o-Terphenyl    | 84-15-1    | 103        | %     | 70-135 | 06.19.2020 23:50 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS13**  
Lab Sample Id: 664913-013

Matrix: Soil  
Date Collected: 06.17.2020 13:50

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

Seq Number: 3129562

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 06.20.2020 01:21 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 06.20.2020 01:21 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 70-130 | 06.20.2020 01:21 |      |
| 4-Bromofluorobenzene | 460-00-4   | 103        | %     | 70-130 | 06.20.2020 01:21 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS14**  
Lab Sample Id: 664913-014

Matrix: Soil  
Date Collected: 06.17.2020 14:00

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3129577

Date Prep: 06.19.2020 10:18

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <9.96  | 9.96 | mg/kg | 06.20.2020 01:08 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3129596

Date Prep: 06.19.2020 18:35

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8       | 49.8 | mg/kg | 06.20.2020 00:51 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>78.1</b> | 49.8 | mg/kg | 06.20.2020 00:51 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8       | 49.8 | mg/kg | 06.20.2020 00:51 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>78.1</b> | 49.8 | mg/kg | 06.20.2020 00:51 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>78.1</b> | 49.8 | mg/kg | 06.20.2020 00:51 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 101        | %     | 70-135 | 06.20.2020 00:51 |      |
| o-Terphenyl    | 84-15-1    | 83         | %     | 70-135 | 06.20.2020 00:51 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS14**  
Lab Sample Id: 664913-014

Matrix: Soil  
Date Collected: 06.17.2020 14:00

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

Seq Number: 3129562

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 06.20.2020 03:03     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 06.20.2020 03:03     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 06.20.2020 03:03     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 06.20.2020 03:03     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 06.20.2020 03:03     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 06.20.2020 03:03     | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 06.20.2020 03:03     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 104               | %            | 70-130        | 06.20.2020 03:03     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 06.20.2020 03:03     |             |     |



# Certificate of Analytical Results 664913

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS15** Matrix: **Soil** Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664913-015 Date Collected: 06.17.2020 14:10 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: **MAB** % Moisture:  
 Analyst: **MAB** Date Prep: 06.19.2020 10:18 Basis: **Wet Weight**  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 15.8   | 9.94 | mg/kg | 06.20.2020 01:14 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: **DTH** % Moisture:  
 Analyst: **DTH** Date Prep: 06.19.2020 18:35 Basis: **Wet Weight**  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.20.2020 01:11 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.20.2020 01:11 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.20.2020 01:11 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.20.2020 01:11 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.20.2020 01:11 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 98         | %     | 70-135 | 06.20.2020 01:11 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 06.20.2020 01:11 |      |



# Certificate of Analytical Results 664913

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS15**  
Lab Sample Id: 664913-015

Matrix: Soil  
Date Collected: 06.17.2020 14:10

Date Received: 06.19.2020 08:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

Seq Number: 3129562

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:24 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:24 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:24 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.20.2020 03:24 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:24 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:24 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:24 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 105        | %     | 70-130 | 06.20.2020 03:24 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 94         | %     | 70-130 | 06.20.2020 03:24 |      |



## 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.      **ND** Not Detected.

**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.

PLU 167

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129577

MB Sample Id: 7705888-1-BLK

Matrix: Solid

LCS Sample Id: 7705888-1-BKS

Prep Method: E300P

Date Prep: 06.19.2020

LCSD Sample Id: 7705888-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 253        | 101      | 263         | 105       | 90-110 | 4    | 20        | mg/kg | 06.19.2020 23:57 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129576

MB Sample Id: 7705887-1-BLK

Matrix: Solid

LCS Sample Id: 7705887-1-BKS

Prep Method: E300P

Date Prep: 06.19.2020

LCSD Sample Id: 7705887-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 253        | 101      | 263         | 105       | 90-110 | 4    | 20        | mg/kg | 06.19.2020 20:44 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129577

Parent Sample Id: 664913-008

Matrix: Soil

MS Sample Id: 664913-008 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664913-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 699           | 199          | 885       | 93      | 883        | 92       | 90-110 | 0    | 20        | mg/kg | 06.20.2020 00:15 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129577

Parent Sample Id: 664914-004

Matrix: Soil

MS Sample Id: 664914-004 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664914-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 235           | 201          | 430       | 97      | 431        | 98       | 90-110 | 0    | 20        | mg/kg | 06.20.2020 01:43 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129576

Parent Sample Id: 664911-004

Matrix: Soil

MS Sample Id: 664911-004 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664911-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <9.98         | 200          | 198       | 99      | 198        | 99       | 90-110 | 0    | 20        | mg/kg | 06.19.2020 21:01 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129576

Parent Sample Id: 664911-014

Matrix: Soil

MS Sample Id: 664911-014 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664911-014 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <9.96         | 199          | 194       | 97      | 194        | 97       | 90-110 | 0    | 20        | mg/kg | 06.19.2020 22:23 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129586

MB Sample Id: 7705893-1-BLK

Matrix: Solid

LCS Sample Id: 7705893-1-BKS

Prep Method: SW8015P

Date Prep: 06.19.2020

LCSD Sample Id: 7705893-1-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) | <50.0     | 1000         | 1000       | 100      | 1050        | 105       | 70-135 | 5    | 35        | mg/kg | 06.19.2020 23:09 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1090       | 109      | 1130        | 113       | 70-135 | 4    | 35        | mg/kg | 06.19.2020 23:09 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 108     |         | 96       |          | 100       |           | 70-135 | %     | 06.19.2020 23:09 |
| o-Terphenyl    | 106     |         | 85       |          | 85        |           | 70-135 | %     | 06.19.2020 23:09 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129596

MB Sample Id: 7705894-1-BLK

Matrix: Solid

LCS Sample Id: 7705894-1-BKS

Prep Method: SW8015P

Date Prep: 06.19.2020

LCSD Sample Id: 7705894-1-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) | <50.0     | 1000         | 917        | 92       | 951         | 95        | 70-135 | 4    | 35        | mg/kg | 06.19.2020 23:09 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 839        | 84       | 832         | 83        | 70-135 | 1    | 35        | mg/kg | 06.19.2020 23:09 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 104     |         | 98       |          | 101       |           | 70-135 | %     | 06.19.2020 23:09 |
| o-Terphenyl    | 108     |         | 81       |          | 77        |           | 70-135 | %     | 06.19.2020 23:09 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129586

Matrix: Solid

MB Sample Id: 7705893-1-BLK

Prep Method: SW8015P

Date Prep: 06.19.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 06.19.2020 22:48 |      |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129596

Matrix: Solid

MB Sample Id: 7705894-1-BLK

Prep Method: SW8015P

Date Prep: 06.19.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 06.19.2020 22:48 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129586

Parent Sample Id: 664911-009

Matrix: Soil

MS Sample Id: 664911-009 S

Prep Method: SW8015P

Date Prep: 06.19.2020

MSD Sample Id: 664911-009 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) | <50.1         | 1000         | 1180      | 118     | 1180       | 118      | 70-135 | 0    | 35        | mg/kg | 06.20.2020 00:10 |      |
| Diesel Range Organics (DRO)       | <50.1         | 1000         | 1280      | 128     | 1290       | 129      | 70-135 | 1    | 35        | mg/kg | 06.20.2020 00:10 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 116     |         | 115      |          | 70-135 | %     | 06.20.2020 00:10 |
| o-Terphenyl    | 98      |         | 98       |          | 70-135 | %     | 06.20.2020 00:10 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129596

Parent Sample Id: 664913-013

Matrix: Soil

MS Sample Id: 664913-013 S

Prep Method: SW8015P

Date Prep: 06.19.2020

MSD Sample Id: 664913-013 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) | <50.2         | 1000         | 1040      | 104     | 950        | 95       | 70-135 | 9    | 35        | mg/kg | 06.20.2020 00:10 |      |
| Diesel Range Organics (DRO)       | 96.9          | 1000         | 1050      | 95      | 958        | 86       | 70-135 | 9    | 35        | mg/kg | 06.20.2020 00:10 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 116     |         | 117      |          | 70-135 | %     | 06.20.2020 00:10 |
| o-Terphenyl    | 94      |         | 86       |          | 70-135 | %     | 06.20.2020 00:10 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129555

MB Sample Id: 7705883-1-BLK

Matrix: Solid

LCS Sample Id: 7705883-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705883-1-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        | 0.108      | 108      | 0.0976      | 98        | 70-130 | 10   | 35        | mg/kg | 06.20.2020 10:00 |      |
| Toluene      | <0.00200  | 0.100        | 0.107      | 107      | 0.0908      | 91        | 70-130 | 16   | 35        | mg/kg | 06.20.2020 10:00 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.113      | 113      | 0.0930      | 93        | 71-129 | 19   | 35        | mg/kg | 06.20.2020 10:00 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.229      | 115      | 0.189       | 95        | 70-135 | 19   | 35        | mg/kg | 06.20.2020 10:00 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.114      | 114      | 0.0945      | 95        | 71-133 | 19   | 35        | mg/kg | 06.20.2020 10:00 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 102     |         | 97       |          | 99        |           | 70-130 | %     | 06.20.2020 10:00 |
| 4-Bromofluorobenzene | 107     |         | 95       |          | 99        |           | 70-130 | %     | 06.20.2020 10:00 |

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.

PLU 167

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129562

MB Sample Id: 7705885-1-BLK

Matrix: Solid

LCS Sample Id: 7705885-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705885-1-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        | 0.0938     | 94       | 0.0885      | 89        | 70-130 | 6    | 35        | mg/kg | 06.19.2020 23:25 |      |
| Toluene      | <0.00200  | 0.100        | 0.0932     | 93       | 0.0893      | 89        | 70-130 | 4    | 35        | mg/kg | 06.19.2020 23:25 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0969     | 97       | 0.0930      | 93        | 71-129 | 4    | 35        | mg/kg | 06.19.2020 23:25 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.197      | 99       | 0.191       | 96        | 70-135 | 3    | 35        | mg/kg | 06.19.2020 23:25 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0994     | 99       | 0.0962      | 96        | 71-133 | 3    | 35        | mg/kg | 06.19.2020 23:25 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 99      |         | 98       |          | 100       |           | 70-130 | %     | 06.19.2020 23:25 |
| 4-Bromofluorobenzene | 101     |         | 93       |          | 102       |           | 70-130 | %     | 06.19.2020 23:25 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129555

Parent Sample Id: 664911-009

Matrix: Soil

MS Sample Id: 664911-009 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664911-009 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00199      | 0.0996       | 0.0798    | 80      | 0.0851     | 85       | 70-130 | 6    | 35        | mg/kg | 06.20.2020 10:41 |      |
| Toluene      | <0.00199      | 0.0996       | 0.0753    | 76      | 0.0808     | 81       | 70-130 | 7    | 35        | mg/kg | 06.20.2020 10:41 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.0776    | 78      | 0.0837     | 84       | 71-129 | 8    | 35        | mg/kg | 06.20.2020 10:41 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.158     | 79      | 0.172      | 86       | 70-135 | 8    | 35        | mg/kg | 06.20.2020 10:41 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.0816    | 82      | 0.0878     | 88       | 71-133 | 7    | 35        | mg/kg | 06.20.2020 10:41 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 96      |         | 98       |          | 70-130 | %     | 06.20.2020 10:41 |
| 4-Bromofluorobenzene | 100     |         | 105      |          | 70-130 | %     | 06.20.2020 10:41 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129562

Parent Sample Id: 664913-013

Matrix: Soil

MS Sample Id: 664913-013 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664913-013 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       | 0.106     | 107     | 0.102      | 102      | 70-130 | 4    | 35        | mg/kg | 06.20.2020 00:06 |      |
| Toluene      | <0.00199      | 0.0994       | 0.101     | 102     | 0.0953     | 95       | 70-130 | 6    | 35        | mg/kg | 06.20.2020 00:06 |      |
| Ethylbenzene | <0.00199      | 0.0994       | 0.102     | 103     | 0.0920     | 92       | 71-129 | 10   | 35        | mg/kg | 06.20.2020 00:06 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.209     | 105     | 0.188      | 94       | 70-135 | 11   | 35        | mg/kg | 06.20.2020 00:06 |      |
| o-Xylene     | <0.00199      | 0.0994       | 0.103     | 104     | 0.0916     | 92       | 71-133 | 12   | 35        | mg/kg | 06.20.2020 00:06 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 100     |         | 99       |          | 70-130 | %     | 06.20.2020 00:06 |
| 4-Bromofluorobenzene | 100     |         | 102      |          | 70-130 | %     | 06.20.2020 00:06 |

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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Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

# Chain of Custody

Work Order No: 1204915

|                  |                                        |                         |                                |
|------------------|----------------------------------------|-------------------------|--------------------------------|
| Project Manager: | Dan Moir                               | Bill to: (if different) | Kyle Littrell                  |
| Company Name:    | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                     |
| Address:         | 3300 North A Street                    | Address:                | 3104 East Green Street         |
| City, State ZIP: | Midland, TX 79705                      | City, State ZIP:        | Carlsbad, NM 88220             |
| Phone:           | (432) 236-3849                         | Email:                  | slc@ltenv.com, dmoir@ltenv.com |

|                 |            |             |                                     |
|-----------------|------------|-------------|-------------------------------------|
| Project Name:   | PLU 167    | Turn Around |                                     |
| Project Number: | 012920078  | Routine     | <input checked="" type="checkbox"/> |
| P.O. Number:    |            | Rush:       |                                     |
| Sampler's Name: | Spencer Lo | Due Date:   |                                     |

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|----------------|-----------------------|-------------|-----|--------------------|-----------|-----|----|
| SAMPLE RECEIPT | Temperature (°C):     | Temp Blank: | Yes | No                 | Well Ice: | Yes | No |
|                | Received Intact:      | Yes         | No  | Thermometer ID     |           |     |    |
|                | Cooler Custody Seals: | Yes         | No  | Correction Factor: |           |     |    |
|                | Sample Custody Seals: | Yes         | No  | Total Containers:  |           |     |    |
|                |                       |             |     |                    |           |     |    |

| SAMPLE RECEIPT        |  |  | Temp Blank: |              | Well Ice:    |       | No                   |    |
|-----------------------|--|--|-------------|--------------|--------------|-------|----------------------|----|
| Temperature (°C):     |  |  | Yes         | No           |              |       | Yes                  | No |
| Received Intact:      |  |  | Yes         |              | No           |       |                      |    |
| Cooler Custody Seals: |  |  | Yes         | No           | N/A          |       |                      |    |
| Sample Custody Seals: |  |  | Yes         | No           | N/A          |       |                      |    |
| Total Containers:     |  |  |             |              |              |       |                      |    |
| Sample Identification |  |  | Matrix      | Date Sampled | Time Sampled | Depth | Number of Containers |    |
| FS01                  |  |  | S           | 6-16-2020    | 1330         | 2'    | 1                    | 1  |
| FS02                  |  |  | S           | 6-16-2020    | 1340         | 2'    | 1                    | 1  |
| FS03                  |  |  | S           | 6-16-2020    | 1350         | 2'    | 1                    | 1  |
| FS04                  |  |  | S           | 6-16-2020    | 1400         | 2'    | 1                    | 1  |
| FS05                  |  |  | S           | 6-16-2020    | 1410         | 2'    | 1                    | 1  |
| FS06                  |  |  | S           | 6-16-2020    | 1420         | 2'    | 1                    | 1  |
| FS07                  |  |  | S           | 6-16-2020    | 1430         | 1'    | 1                    | 1  |
| FS08                  |  |  | S           | 6-17-2020    | 1205         | 2     | 1                    | 1  |
| FS09                  |  |  | S           | 6-17-2020    | 1215         | 2     | 1                    | 1  |
| FS10                  |  |  | S           | 6-17-2020    | 1225         | 2     | 1                    | 1  |
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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U  
1631 / 245.1 / 7470 / 7471 : Hg

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 \$75.00 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.

|                              |                          |              |                              |                          |              |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|--------------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time    |
|                              |                          | 6/19/20 0819 |                              |                          | 6/20/20 0830 |
|                              |                          |              |                              |                          | 6/19/20      |



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Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

# Chain of Custody

Work Order No: 1604913

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|                  |                                        |                         |                                |
|------------------|----------------------------------------|-------------------------|--------------------------------|
| Project Manager: | Dan Moir                               | Bill to: (if different) | Kyle Litrell                   |
| Company Name:    | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                     |
| Address:         | 3300 North A Street                    | Address:                | 3104 East Green Street         |
| City, State ZIP: | Midland, TX 79705                      | City, State ZIP:        | Carlsbad, NM 88220             |
| Phone:           | (432) 236-3849                         | Email:                  | slm@ltenv.com, dmoir@ltenv.com |

|                 |            |             |                                     |
|-----------------|------------|-------------|-------------------------------------|
| Project Name:   | PLU 167    | Turn Around |                                     |
| Project Number: | 012920078  | Routine     | <input checked="" type="checkbox"/> |
| P.O. Number:    |            | Rush:       |                                     |
| Sampler's Name: | Spencer Lo | Due Date:   |                                     |

|                       |        |                 |                    |    |          |     |    |
|-----------------------|--------|-----------------|--------------------|----|----------|-----|----|
| <b>SAMPLE RECEIPT</b> |        | Temp Blank:     | Yes                | No | Wet Ice: | Yes | No |
| Temperature (°C):     | 21/1.9 | Thermometer ID: |                    |    |          |     |    |
| Received In tact:     | Yes    | No              |                    |    |          |     |    |
| Cooler Custody Seals: | Yes    | No              | Correction Factor: |    |          |     |    |
| Sample Custody Seals: | Yes    | No              | Total Containers:  | 5  |          |     |    |

| Sample Identification                                             | Matrix | Date Sampled | Time Sampled | Depth | Number | TPH (EPA 8015) | BTEX (EPA 8015) | Chloride (EPA 8015) | Sample Comments |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------|--------|--------------|--------------|-------|--------|----------------|-----------------|---------------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| FS11                                                              | S      | 6-17-2020    | 1330         | 2'    | 1      | X              | X               | X                   |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FS12                                                              | S      | 6-17-2020    | 1340         | 2'    | 1      | X              | X               | X                   |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FS13                                                              | S      | 6-17-2020    | 1350         | 4'    | 1      | X              | X               | X                   |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FS14                                                              | S      | 6-17-2020    | 1400         | 4'    | 1      | X              | X               | X                   |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FS15                                                              | S      | 6-17-2020    | 1410         | 4'    | 1      | X              | X               | X                   |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <div>Signature: [Signature]</div> <div>Initials: [Initials]</div> |        |              |              |       |        |                |                 |                     |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

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 \$75.00 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.

|                              |                          |              |                              |                          |              |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|--------------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time    |
| <i>[Signature]</i>           | <i>[Signature]</i>       | 6/19/20 0818 | <i>[Signature]</i>           | <i>[Signature]</i>       | 6/20/20 0830 |

## XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06.19.2020 08.30.00 AM

Work Order #: 664913

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 1.9      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

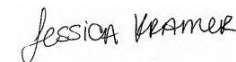
Checklist completed by:



Elizabeth McClellan

Date: 06.19.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.22.2020



# Certificate of Analysis Summary 664914

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.23.2020 08:02

Project Manager: Jessica Kramer

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 664914-001       | 664914-002       | 664914-003       | 664914-004       | 664914-005       | 664914-006       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <i>Field Id:</i>  | SW01             | SW02             | SW03             | SW04             | SW05             | SW06             |
|                                    | <i>Depth:</i>     | 0-2 ft           | 0-2 ft           | 0-1 ft           | 0-2 ft           | 0-2 ft           | 0-2 ft           |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <i>Sampled:</i>   | 06.17.2020 13:45 | 06.17.2020 13:55 | 06.17.2020 14:05 | 06.17.2020 14:15 | 06.17.2020 14:25 | 06.17.2020 14:35 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 |
|                                    | <i>Analyzed:</i>  | 06.20.2020 03:44 | 06.20.2020 04:04 | 06.20.2020 04:25 | 06.20.2020 05:12 | 06.20.2020 06:01 | 06.20.2020 06:21 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                            |                   | <0.00201 0.00201 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 | <0.0101 0.0101   |
| Toluene                            |                   | <0.00201 0.00201 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 | <0.0101 0.0101   |
| Ethylbenzene                       |                   | <0.00201 0.00201 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 | <0.0101 0.0101   |
| m,p-Xylenes                        |                   | <0.00402 0.00402 | <0.00402 0.00402 | <0.00402 0.00402 | <0.00401 0.00401 | <0.00402 0.00402 | <0.0202 0.0202   |
| o-Xylene                           |                   | <0.00201 0.00201 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 | <0.0101 0.0101   |
| Total Xylenes                      |                   | <0.00201 0.00201 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 | <0.0101 0.0101   |
| Total BTEX                         |                   | <0.00201 0.00201 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00201 0.00201 | <0.0101 0.0101   |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 |
|                                    | <i>Analyzed:</i>  | 06.20.2020 01:19 | 06.20.2020 01:25 | 06.20.2020 01:31 | 06.20.2020 01:37 | 06.20.2020 01:55 | 06.20.2020 02:01 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | <9.90 9.90       | 34.6 10.0        | 50.7 10.0        | 235 10.0         | 644 9.92         | 1300 9.94        |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 |
|                                    | <i>Analyzed:</i>  | 06.20.2020 01:31 | 06.20.2020 01:52 | 06.20.2020 02:13 | 06.20.2020 02:33 | 06.20.2020 02:53 | 06.20.2020 06:59 |
|                                    | <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)  |                   | <50.1 50.1       | <49.9 49.9       | <50.1 50.1       | <50.2 50.2       | <50.2 50.2       | <75.3 75.3       |
| Diesel Range Organics (DRO)        |                   | <50.1 50.1       | <49.9 49.9       | <50.1 50.1       | 55.7 50.2        | <50.2 50.2       | 1490 251         |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.1 50.1       | <49.9 49.9       | <50.1 50.1       | <50.2 50.2       | <50.2 50.2       | <251 251         |
| Total GRO-DRO                      |                   | <50.1 50.1       | <49.9 49.9       | <50.1 50.1       | 55.7 50.2        | <50.2 50.2       | 1490 75.3        |
| Total TPH                          |                   | <50.1 50.1       | <49.9 49.9       | <50.1 50.1       | 55.7 50.2        | <50.2 50.2       | 1490 75.3        |

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

Jessica Kramer  
Project Manager



# Certificate of Analysis Summary 664914

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 06.19.2020 08:30

Report Date: 06.23.2020 08:02

Project Manager: Jessica Kramer

| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 664914-007       | 664914-008       | 664914-009       | 664914-010       | 664914-011       | 664914-012       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <b>Field Id:</b>  | SW07             | SW08             | SW09             | SW10             | SW11             | SW12             |
|                                    | <b>Depth:</b>     | 0-4 ft           | 0-4 ft           | 0-2 ft           | 0-2 ft           | 0-2 ft           | 0-2 ft           |
|                                    | <b>Matrix:</b>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <b>Sampled:</b>   | 06.17.2020 14:45 | 06.17.2020 14:55 | 06.17.2020 15:05 | 06.17.2020 15:15 | 06.17.2020 15:25 | 06.17.2020 15:35 |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 | 06.19.2020 17:10 |
|                                    | <b>Analyzed:</b>  | 06.20.2020 06:42 | 06.20.2020 07:02 | 06.20.2020 07:23 | 06.20.2020 07:43 | 06.20.2020 08:03 | 06.20.2020 08:24 |
|                                    | <b>Units/RL:</b>  | mg/kg 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 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 |
| Toluene                            |                   | <0.00200 0.00200 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 |
| Ethylbenzene                       |                   | <0.00200 0.00200 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 |
| m,p-Xylenes                        |                   | <0.00399 0.00399 | <0.00402 0.00402 | <0.00398 0.00398 | <0.00402 0.00402 | <0.00404 0.00404 | <0.00398 0.00398 |
| o-Xylene                           |                   | <0.00200 0.00200 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 |
| Total Xylenes                      |                   | <0.00200 0.00200 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 |
| Total BTEX                         |                   | <0.00200 0.00200 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 | 06.19.2020 10:18 |
|                                    | <b>Analyzed:</b>  | 06.20.2020 02:18 | 06.20.2020 02:24 | 06.20.2020 02:30 | 06.20.2020 02:36 | 06.20.2020 02:42 | 06.20.2020 02:48 |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | 33.6 9.96        | 20.4 9.98        | 15.9 10.0        | 38.5 10.0        | 15.1 10.1        | <10.1 10.1       |
| <b>TPH by SW8015 Mod</b>           | <b>Extracted:</b> | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 | 06.19.2020 18:35 |
|                                    | <b>Analyzed:</b>  | 06.20.2020 03:14 | 06.20.2020 03:34 | 06.20.2020 04:15 | 06.20.2020 04:35 | 06.20.2020 04:56 | 06.20.2020 05:16 |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |                   | <49.8 49.8       | <50.0 50.0       | <50.3 50.3       | <50.0 50.0       | <50.1 50.1       | <49.8 49.8       |
| Diesel Range Organics (DRO)        |                   | <49.8 49.8       | <50.0 50.0       | <50.3 50.3       | <50.0 50.0       | <50.1 50.1       | <49.8 49.8       |
| Motor Oil Range Hydrocarbons (MRO) |                   | <49.8 49.8       | <50.0 50.0       | <50.3 50.3       | <50.0 50.0       | <50.1 50.1       | <49.8 49.8       |
| Total GRO-DRO                      |                   | <49.8 49.8       | <50.0 50.0       | <50.3 50.3       | <50.0 50.0       | <50.1 50.1       | <49.8 49.8       |
| Total TPH                          |                   | <49.8 49.8       | <50.0 50.0       | <50.3 50.3       | <50.0 50.0       | <50.1 50.1       | <49.8 49.8       |

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

Jessica Kramer  
Project Manager



# Analytical Report 664914

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167**

**012920078**

**06.23.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.23.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **664914**

**PLU 167**

Project Address:

**Dan Moir:**

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) 664914. 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. 664914 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 Manager

*A Small Business and Minority Company*

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

**Sample Cross Reference 664914****LT Environmental, Inc., Arvada, CO**

PLU 167

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| SW01             | S             | 06.17.2020 13:45      | 0 - 2 ft            | 664914-001           |
| SW02             | S             | 06.17.2020 13:55      | 0 - 2 ft            | 664914-002           |
| SW03             | S             | 06.17.2020 14:05      | 0 - 1 ft            | 664914-003           |
| SW04             | S             | 06.17.2020 14:15      | 0 - 2 ft            | 664914-004           |
| SW05             | S             | 06.17.2020 14:25      | 0 - 2 ft            | 664914-005           |
| SW06             | S             | 06.17.2020 14:35      | 0 - 2 ft            | 664914-006           |
| SW07             | S             | 06.17.2020 14:45      | 0 - 4 ft            | 664914-007           |
| SW08             | S             | 06.17.2020 14:55      | 0 - 4 ft            | 664914-008           |
| SW09             | S             | 06.17.2020 15:05      | 0 - 2 ft            | 664914-009           |
| SW10             | S             | 06.17.2020 15:15      | 0 - 2 ft            | 664914-010           |
| SW11             | S             | 06.17.2020 15:25      | 0 - 2 ft            | 664914-011           |
| SW12             | S             | 06.17.2020 15:35      | 0 - 2 ft            | 664914-012           |



## CASE NARRATIVE

**Client Name:** *LT Environmental, Inc.*

**Project Name:** *PLU 167*

Project ID: 012920078  
Work Order Number(s): 664914

Report Date: 06.23.2020  
Date Received: 06.19.2020

---

**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW01** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-001 Date Collected: 06.17.2020 13:45 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <9.90  | 9.90 | mg/kg | 06.20.2020 01:19 | U    | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1 | mg/kg | 06.20.2020 01:31 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1 | mg/kg | 06.20.2020 01:31 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1 | mg/kg | 06.20.2020 01:31 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.1  | 50.1 | mg/kg | 06.20.2020 01:31 | U    | 1   |
| Total TPH                          | PHC635     | <50.1  | 50.1 | mg/kg | 06.20.2020 01:31 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 104        | %     | 70-135 | 06.20.2020 01:31 |      |
| o-Terphenyl    | 84-15-1    | 103        | %     | 70-135 | 06.20.2020 01:31 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW01**  
Lab Sample Id: 664914-001

Matrix: Soil  
Date Collected: 06.17.2020 13:45

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129562

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:44 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:44 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:44 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.20.2020 03:44 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:44 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:44 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 06.20.2020 03:44 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 104        | %     | 70-130 | 06.20.2020 03:44 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 70-130 | 06.20.2020 03:44 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW02** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-002 Date Collected: 06.17.2020 13:55 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 34.6   | 10.0 | mg/kg | 06.20.2020 01:25 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 06.20.2020 01:52 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 06.20.2020 01:52 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 06.20.2020 01:52 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.9  | 49.9 | mg/kg | 06.20.2020 01:52 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 06.20.2020 01:52 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 106        | %     | 70-135 | 06.20.2020 01:52 |      |
| o-Terphenyl    | 84-15-1    | 109        | %     | 70-135 | 06.20.2020 01:52 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW02**  
Lab Sample Id: 664914-002

Matrix: Soil  
Date Collected: 06.17.2020 13:55

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129562

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:04 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:04 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:04 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.20.2020 04:04 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:04 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:04 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:04 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 94         | %     | 70-130 | 06.20.2020 04:04 |      |
| 4-Bromofluorobenzene | 460-00-4   | 91         | %     | 70-130 | 06.20.2020 04:04 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW03** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-003 Date Collected: 06.17.2020 14:05 Sample Depth: 0 - 1 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 50.7   | 10.0 | mg/kg | 06.20.2020 01:31 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1 | mg/kg | 06.20.2020 02:13 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1 | mg/kg | 06.20.2020 02:13 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1 | mg/kg | 06.20.2020 02:13 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.1  | 50.1 | mg/kg | 06.20.2020 02:13 | U    | 1   |
| Total TPH                          | PHC635     | <50.1  | 50.1 | mg/kg | 06.20.2020 02:13 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 06.20.2020 02:13 |      |
| o-Terphenyl    | 84-15-1    | 103        | %     | 70-135 | 06.20.2020 02:13 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW03**  
Lab Sample Id: 664914-003

Matrix: Soil  
Date Collected: 06.17.2020 14:05

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129562

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:25 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:25 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:25 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.20.2020 04:25 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:25 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:25 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 06.20.2020 04:25 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 06.20.2020 04:25 |      |
| 4-Bromofluorobenzene | 460-00-4   | 104        | %     | 70-130 | 06.20.2020 04:25 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW04** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-004 Date Collected: 06.17.2020 14:15 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 235    | 10.0 | mg/kg | 06.20.2020 01:37 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.2  | 50.2 | mg/kg | 06.20.2020 02:33 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | 55.7   | 50.2 | mg/kg | 06.20.2020 02:33 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.2  | 50.2 | mg/kg | 06.20.2020 02:33 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | 55.7   | 50.2 | mg/kg | 06.20.2020 02:33 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | 55.7   | 50.2 | mg/kg | 06.20.2020 02:33 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 06.20.2020 02:33 |      |
| o-Terphenyl    | 84-15-1    | 96         | %     | 70-135 | 06.20.2020 02:33 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW04**  
Lab Sample Id: 664914-004

Matrix: Soil  
Date Collected: 06.17.2020 14:15

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

Seq Number: 3129562

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 05:12 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 05:12 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 05:12 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.20.2020 05:12 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 05:12 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.20.2020 05:12 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.20.2020 05:12 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 95         | %     | 70-130 | 06.20.2020 05:12 |      |
| 4-Bromofluorobenzene | 460-00-4   | 99         | %     | 70-130 | 06.20.2020 05:12 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW05** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-005 Date Collected: 06.17.2020 14:25 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 644    | 9.92 | mg/kg | 06.20.2020 01:55 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.2  | 50.2 | mg/kg | 06.20.2020 02:53 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.2  | 50.2 | mg/kg | 06.20.2020 02:53 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.2  | 50.2 | mg/kg | 06.20.2020 02:53 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.2  | 50.2 | mg/kg | 06.20.2020 02:53 | U    | 1   |
| Total TPH                          | PHC635     | <50.2  | 50.2 | mg/kg | 06.20.2020 02:53 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 99         | %     | 70-135 | 06.20.2020 02:53 |      |
| o-Terphenyl    | 84-15-1    | 102        | %     | 70-135 | 06.20.2020 02:53 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW05**  
Lab Sample Id: 664914-005

Matrix: Soil  
Date Collected: 06.17.2020 14:25

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129562

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 06.20.2020 06:01     | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 06.20.2020 06:01     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 06.20.2020 06:01     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 06.20.2020 06:01     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 06.20.2020 06:01     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 06.20.2020 06:01     | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 06.20.2020 06:01     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 105               | %            | 70-130        | 06.20.2020 06:01     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 06.20.2020 06:01     |             |     |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW06** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-006 Date Collected: 06.17.2020 14:35 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 1300   | 9.94 | mg/kg | 06.20.2020 02:01 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <75.3  | 75.3 | mg/kg | 06.20.2020 06:59 | U    | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 1490   | 251  | mg/kg | 06.20.2020 06:59 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <251   | 251  | mg/kg | 06.20.2020 06:59 | U    | 5   |
| Total GRO-DRO                      | PHC628     | 1490   | 75.3 | mg/kg | 06.20.2020 06:59 |      | 5   |
| Total TPH                          | PHC635     | 1490   | 75.3 | mg/kg | 06.20.2020 06:59 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 120        | %     | 70-135 | 06.20.2020 06:59 |      |
| o-Terphenyl    | 84-15-1    | 129        | %     | 70-135 | 06.20.2020 06:59 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW06**  
Lab Sample Id: 664914-006

Matrix: Soil  
Date Collected: 06.17.2020 14:35

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

Seq Number: 3129562

| Parameter     | Cas Number  | Result  | RL     | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|---------|--------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.0101 | 0.0101 | mg/kg | 06.20.2020 06:21 | U    | 1   |
| Toluene       | 108-88-3    | <0.0101 | 0.0101 | mg/kg | 06.20.2020 06:21 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.0101 | 0.0101 | mg/kg | 06.20.2020 06:21 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.0202 | 0.0202 | mg/kg | 06.20.2020 06:21 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.0101 | 0.0101 | mg/kg | 06.20.2020 06:21 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.0101 | 0.0101 | mg/kg | 06.20.2020 06:21 | U    | 1   |
| Total BTEX    |             | <0.0101 | 0.0101 | mg/kg | 06.20.2020 06:21 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 98         | %     | 70-130 | 06.20.2020 06:21 |      |
| 4-Bromofluorobenzene | 460-00-4   | 98         | %     | 70-130 | 06.20.2020 06:21 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW07** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-007 Date Collected: 06.17.2020 14:45 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 33.6   | 9.96 | mg/kg | 06.20.2020 02:18 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 06.20.2020 03:14 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 06.20.2020 03:14 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 06.20.2020 03:14 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.8  | 49.8 | mg/kg | 06.20.2020 03:14 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 06.20.2020 03:14 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 103        | %     | 70-135 | 06.20.2020 03:14 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 06.20.2020 03:14 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW07**  
Lab Sample Id: 664914-007

Matrix: Soil  
Date Collected: 06.17.2020 14:45

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

Seq Number: 3129562

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 06:42 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 06:42 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.20.2020 06:42 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.20.2020 06:42 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.20.2020 06:42 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.20.2020 06:42 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.20.2020 06:42 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 06.20.2020 06:42 |      |
| 4-Bromofluorobenzene | 460-00-4   | 105        | %     | 70-130 | 06.20.2020 06:42 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW08** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-008 Date Collected: 06.17.2020 14:55 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 20.4   | 9.98 | mg/kg | 06.20.2020 02:24 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.20.2020 03:34 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 103        | %     | 70-135 | 06.20.2020 03:34 |      |
| o-Terphenyl    | 84-15-1    | 109        | %     | 70-135 | 06.20.2020 03:34 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW08**  
Lab Sample Id: 664914-008

Matrix: Soil  
Date Collected: 06.17.2020 14:55

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129562

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:02 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:02 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:02 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.20.2020 07:02 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:02 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:02 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:02 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 06.20.2020 07:02 |      |
| 4-Bromofluorobenzene | 460-00-4   | 106        | %     | 70-130 | 06.20.2020 07:02 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW09** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-009 Date Collected: 06.17.2020 15:05 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 15.9   | 10.0 | mg/kg | 06.20.2020 02:30 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.3  | 50.3 | mg/kg | 06.20.2020 04:15 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.3  | 50.3 | mg/kg | 06.20.2020 04:15 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.3  | 50.3 | mg/kg | 06.20.2020 04:15 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.3  | 50.3 | mg/kg | 06.20.2020 04:15 | U    | 1   |
| Total TPH                          | PHC635     | <50.3  | 50.3 | mg/kg | 06.20.2020 04:15 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 96         | %     | 70-135 | 06.20.2020 04:15 |      |
| o-Terphenyl    | 84-15-1    | 101        | %     | 70-135 | 06.20.2020 04:15 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW09**  
Lab Sample Id: 664914-009

Matrix: Soil  
Date Collected: 06.17.2020 15:05

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129562

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 06.20.2020 07:23 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 06.20.2020 07:23 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 06.20.2020 07:23 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.20.2020 07:23 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 06.20.2020 07:23 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 06.20.2020 07:23 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 06.20.2020 07:23 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 70-130 | 06.20.2020 07:23 |      |
| 4-Bromofluorobenzene | 460-00-4   | 105        | %     | 70-130 | 06.20.2020 07:23 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW10** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-010 Date Collected: 06.17.2020 15:15 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 38.5   | 10.0 | mg/kg | 06.20.2020 02:36 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 06.20.2020 04:35 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 06.20.2020 04:35 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 06.20.2020 04:35 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.0  | 50.0 | mg/kg | 06.20.2020 04:35 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 06.20.2020 04:35 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 109        | %     | 70-135 | 06.20.2020 04:35 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 06.20.2020 04:35 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW10**  
Lab Sample Id: 664914-010

Matrix: Soil  
Date Collected: 06.17.2020 15:15

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129562

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:43 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:43 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:43 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.20.2020 07:43 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:43 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:43 | U    | 1   |
| Total BTEX    |             | <0.00201 | 0.00201 | mg/kg | 06.20.2020 07:43 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 103        | %     | 70-130 | 06.20.2020 07:43 |      |
| 4-Bromofluorobenzene | 460-00-4   | 107        | %     | 70-130 | 06.20.2020 07:43 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW11** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-011 Date Collected: 06.17.2020 15:25 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 15.1   | 10.1 | mg/kg | 06.20.2020 02:42 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1 | mg/kg | 06.20.2020 04:56 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1 | mg/kg | 06.20.2020 04:56 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1 | mg/kg | 06.20.2020 04:56 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.1  | 50.1 | mg/kg | 06.20.2020 04:56 | U    | 1   |
| Total TPH                          | PHC635     | <50.1  | 50.1 | mg/kg | 06.20.2020 04:56 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 104        | %     | 70-135 | 06.20.2020 04:56 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 06.20.2020 04:56 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW11**  
Lab Sample Id: 664914-011

Matrix: Soil  
Date Collected: 06.17.2020 15:25

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

Seq Number: 3129562

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00202 | 0.00202 | mg/kg | 06.20.2020 08:03 | U    | 1   |
| Toluene       | 108-88-3    | <0.00202 | 0.00202 | mg/kg | 06.20.2020 08:03 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00202 | 0.00202 | mg/kg | 06.20.2020 08:03 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 06.20.2020 08:03 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00202 | 0.00202 | mg/kg | 06.20.2020 08:03 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00202 | 0.00202 | mg/kg | 06.20.2020 08:03 | U    | 1   |
| Total BTEX    |             | <0.00202 | 0.00202 | mg/kg | 06.20.2020 08:03 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 98         | %     | 70-130 | 06.20.2020 08:03 |      |
| 4-Bromofluorobenzene | 460-00-4   | 108        | %     | 70-130 | 06.20.2020 08:03 |      |



# Certificate of Analytical Results 664914

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW12** Matrix: Soil Date Received: 06.19.2020 08:30  
 Lab Sample Id: 664914-012 Date Collected: 06.17.2020 15:35 Sample Depth: 0 - 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.19.2020 10:18 Basis: Wet Weight  
 Seq Number: 3129577

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <10.1  | 10.1 | mg/kg | 06.20.2020 02:48 | U    | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.19.2020 18:35 Basis: Wet Weight  
 Seq Number: 3129596

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 06.20.2020 05:16 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 06.20.2020 05:16 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 06.20.2020 05:16 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.8  | 49.8 | mg/kg | 06.20.2020 05:16 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 06.20.2020 05:16 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 06.20.2020 05:16 |      |
| o-Terphenyl    | 84-15-1    | 94         | %     | 70-135 | 06.20.2020 05:16 |      |



# Certificate of Analytical Results 664914

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW12**  
Lab Sample Id: 664914-012

Matrix: Soil  
Date Collected: 06.17.2020 15:35

Date Received: 06.19.2020 08:30  
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129562

Prep Method: SW5035A

% Moisture:

Date Prep: 06.19.2020 17:10

Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 08:24     | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 08:24     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 08:24     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 06.20.2020 08:24     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 08:24     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 08:24     | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 06.20.2020 08:24     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 108               | %            | 70-130        | 06.20.2020 08:24     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 06.20.2020 08:24     |             |     |



## 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.      **ND** Not Detected.

**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.

PLU 167

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129577

MB Sample Id: 7705888-1-BLK

Matrix: Solid

LCS Sample Id: 7705888-1-BKS

Prep Method: E300P

Date Prep: 06.19.2020

LCSD Sample Id: 7705888-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 253        | 101      | 263         | 105       | 90-110 | 4    | 20        | mg/kg | 06.19.2020 23:57 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129577

Parent Sample Id: 664913-008

Matrix: Soil

MS Sample Id: 664913-008 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664913-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 699           | 199          | 885       | 93      | 883        | 92       | 90-110 | 0    | 20        | mg/kg | 06.20.2020 00:15 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3129577

Parent Sample Id: 664914-004

Matrix: Soil

MS Sample Id: 664914-004 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664914-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 235           | 201          | 430       | 97      | 431        | 98       | 90-110 | 0    | 20        | mg/kg | 06.20.2020 01:43 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3129596

MB Sample Id: 7705894-1-BLK

Matrix: Solid

LCS Sample Id: 7705894-1-BKS

Prep Method: SW8015P

Date Prep: 06.19.2020

LCSD Sample Id: 7705894-1-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) | <50.0     | 1000         | 917        | 92       | 951         | 95        | 70-135 | 4    | 35        | mg/kg | 06.19.2020 23:09 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 839        | 84       | 832         | 83        | 70-135 | 1    | 35        | mg/kg | 06.19.2020 23:09 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 104     |         | 98       |          | 101       |           | 70-135 | %     | 06.19.2020 23:09 |
| o-Terphenyl    | 108     |         | 81       |          | 77        |           | 70-135 | %     | 06.19.2020 23:09 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3129596

Matrix: Solid

MB Sample Id: 7705894-1-BLK

Prep Method: SW8015P

Date Prep: 06.19.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 06.19.2020 22:48 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129596

Parent Sample Id: 664913-013

Matrix: Soil

MS Sample Id: 664913-013 S

Prep Method: SW8015P

Date Prep: 06.19.2020

MSD Sample Id: 664913-013 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) | <50.2         | 1000         | 1040      | 104     | 950        | 95       | 70-135 | 9    | 35        | mg/kg | 06.20.2020 00:10 |      |
| Diesel Range Organics (DRO)       | 96.9          | 1000         | 1050      | 95      | 958        | 86       | 70-135 | 9    | 35        | mg/kg | 06.20.2020 00:10 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 116     |         | 117      |          | 70-135 | %     | 06.20.2020 00:10 |
| o-Terphenyl    | 94      |         | 86       |          | 70-135 | %     | 06.20.2020 00:10 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129562

MB Sample Id: 7705885-1-BLK

Matrix: Solid

LCS Sample Id: 7705885-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705885-1-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        | 0.0938     | 94       | 0.0885      | 89        | 70-130 | 6    | 35        | mg/kg | 06.19.2020 23:25 |      |
| Toluene      | <0.00200  | 0.100        | 0.0932     | 93       | 0.0893      | 89        | 70-130 | 4    | 35        | mg/kg | 06.19.2020 23:25 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0969     | 97       | 0.0930      | 93        | 71-129 | 4    | 35        | mg/kg | 06.19.2020 23:25 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.197      | 99       | 0.191       | 96        | 70-135 | 3    | 35        | mg/kg | 06.19.2020 23:25 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0994     | 99       | 0.0962      | 96        | 71-133 | 3    | 35        | mg/kg | 06.19.2020 23:25 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 99      |         | 98       |          | 100       |           | 70-130 | %     | 06.19.2020 23:25 |
| 4-Bromofluorobenzene | 101     |         | 93       |          | 102       |           | 70-130 | %     | 06.19.2020 23:25 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129562

Parent Sample Id: 664913-013

Matrix: Soil

MS Sample Id: 664913-013 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664913-013 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       | 0.106     | 107     | 0.102      | 102      | 70-130 | 4    | 35        | mg/kg | 06.20.2020 00:06 |      |
| Toluene      | <0.00199      | 0.0994       | 0.101     | 102     | 0.0953     | 95       | 70-130 | 6    | 35        | mg/kg | 06.20.2020 00:06 |      |
| Ethylbenzene | <0.00199      | 0.0994       | 0.102     | 103     | 0.0920     | 92       | 71-129 | 10   | 35        | mg/kg | 06.20.2020 00:06 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.209     | 105     | 0.188      | 94       | 70-135 | 11   | 35        | mg/kg | 06.20.2020 00:06 |      |
| o-Xylene     | <0.00199      | 0.0994       | 0.103     | 104     | 0.0916     | 92       | 71-133 | 12   | 35        | mg/kg | 06.20.2020 00:06 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 100     |         | 99       |          | 70-130 | %     | 06.20.2020 00:06 |
| 4-Bromofluorobenzene | 100     |         | 102      |          | 70-130 | %     | 06.20.2020 00:06 |

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



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) 449-8600 Tampa, FL (813) 620-2000

# Chain of Custody

Work Order No: 1664914

Project Manager: Dan Moir  
 Company Name: LT Environmental, Inc., Permian office  
 Address: 3300 North A Street  
 City, State ZIP: Midland, TX 79705  
 Phone: (432) 236-3849  
 Email: [slo@ltenv.com](mailto:slo@ltenv.com), [dmoir@ltenv.com](mailto:dmoir@ltenv.com)

Bill to: (if different) Kyle Littrell  
 Company Name: XTO Energy  
 Address: 3104 East Green Street  
 City, State ZIP: Carlsbad, NM 88220

Program: ☒ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund  
 State of Project: ☐ Level I ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐  
 Reporting Level: ☐ EDD ☐ ADAPT ☐ Other: ☐

Project Name: PLU 167  
 Project Number: 012920078  
 P.O. Number:  
 Sampler's Name: Spencer Lo  
 Due Date:

Turn Around Routine ☒  
 Rush: ☐  
 ANALYSIS REQUEST  
 Work Order Notes

**SAMPLE RECEIPT**  
 Temperature (°C): 8.1 / 1.9  
 Received In tact: Yes No  
 Cooler Custody Seals: Yes No  
 Sample Custody Seals: Yes No  
 Thermometer ID: HMB07  
 Correction Factor: -0.2  
 Total Containers: 12

Temp Blank: Yes No  
 Wet Ice: Yes No  
 Number of Containers  
 TPH (EPA 8015)  
 BTEX (EPA 0=8021)  
 Chloride (EPA 300.0)

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | Analysis Request | Work Order Notes |
|-----------------------|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|------------------|------------------|
| SW01                  | S      | 6-17-2020    | 1345         | 0-2'  | 1                    | X              | X                 | X                    |                  |                  |
| SW02                  | S      | 6-17-2020    | 1355         | 0-2'  | 1                    | X              | X                 | X                    |                  |                  |
| SW03                  | S      | 6-17-2020    | 1405         | 0-1'  | 1                    | X              | X                 | X                    |                  |                  |
| SW04                  | S      | 6-17-2020    | 1415         | 0-2'  | 1                    | X              | X                 | X                    |                  |                  |
| SW05                  | S      | 6-17-2020    | 1425         | 0-2'  | 1                    | X              | X                 | X                    |                  |                  |
| SW06                  | S      | 6-17-2020    | 1435         | 0-2'  | 1                    | X              | X                 | X                    |                  |                  |
| SW07                  | S      | 6-17-2020    | 1445         | 0-4'  | 1                    | X              | X                 | X                    |                  |                  |
| SW08                  | S      | 6-17-2020    | 1455         | 0-4'  | 1                    | X              | X                 | X                    |                  |                  |
| SW09                  | S      | 6-17-2020    | 1505         | 0-2'  | 1                    | X              | X                 | X                    |                  |                  |
| SW10                  | S      | 6-17-2020    | 1515         | 0-2'  | 1                    | X              | X                 | X                    |                  |                  |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U  
 1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature) Received by: (Signature) Date/Time  
 1 [Signature] 6/19/20 0830  
 2 [Signature]  
 3 [Signature]  
 4 [Signature]  
 5 [Signature]  
 6 [Signature]

**Work Order No.:**

10604914

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Page 2 of 2

| Work Order Comments |                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program: UST/PST    | <input type="checkbox"/> RRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project:   |                                                                                                                                                            |
| Reporting Level II  | <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables: EDD   | <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:                                                                                             |

[illegible]

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

[illegible]

1631 / 245.1 / 7470 / 747

1000000

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time    |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|--------------|
| <i>[Signature]</i>           | <i>[Signature]</i>       | 6/19/20 0830 | <i>[Signature]</i>           | <i>[Signature]</i>       | 6/20/20 0830 |
|                              |                          |              |                              |                          | 6/19/26      |
|                              |                          |              |                              |                          | cc           |

## XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06.19.2020 08.30.00 AM

Work Order #: 664914

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 1.9      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

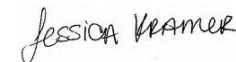
Checklist completed by:



Elizabeth McClellan

Date: 06.19.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.22.2020



# Certificate of Analysis Summary 665077

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Mon 06.22.2020 15:30

Report Date: 06.24.2020 14:21

Project Manager: Jessica Kramer

|                                    |                   |                  |                  |  |  |  |  |
|------------------------------------|-------------------|------------------|------------------|--|--|--|--|
| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 665077-001       | 665077-002       |  |  |  |  |
|                                    | <b>Field Id:</b>  | FS08A            | SW20             |  |  |  |  |
|                                    | <b>Depth:</b>     | 4- ft            | 0-4 ft           |  |  |  |  |
|                                    | <b>Matrix:</b>    | SOIL             | SOIL             |  |  |  |  |
|                                    | <b>Sampled:</b>   | 06.22.2020 14:10 | 06.22.2020 14:25 |  |  |  |  |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> | 06.23.2020 14:19 | 06.23.2020 14:19 |  |  |  |  |
|                                    | <b>Analyzed:</b>  | 06.23.2020 17:41 | 06.23.2020 18:03 |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         |  |  |  |  |
| Benzene                            |                   | <0.00200 0.00200 | <0.00199 0.00199 |  |  |  |  |
| Toluene                            |                   | <0.00200 0.00200 | <0.00199 0.00199 |  |  |  |  |
| Ethylbenzene                       |                   | <0.00200 0.00200 | <0.00199 0.00199 |  |  |  |  |
| m,p-Xylenes                        |                   | <0.00400 0.00400 | <0.00398 0.00398 |  |  |  |  |
| o-Xylene                           |                   | <0.00200 0.00200 | <0.00199 0.00199 |  |  |  |  |
| Total Xylenes                      |                   | <0.00200 0.00200 | <0.00199 0.00199 |  |  |  |  |
| Total BTEX                         |                   | <0.00200 0.00200 | <0.00199 0.00199 |  |  |  |  |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> | 06.23.2020 17:11 | 06.23.2020 17:11 |  |  |  |  |
|                                    | <b>Analyzed:</b>  | 06.23.2020 18:59 | 06.23.2020 19:17 |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         |  |  |  |  |
| Chloride                           |                   | 549 10.0         | 1100 10.0        |  |  |  |  |
| <b>TPH by SW8015 Mod</b>           | <b>Extracted:</b> | 06.23.2020 12:00 | 06.23.2020 12:00 |  |  |  |  |
|                                    | <b>Analyzed:</b>  | ** ** *          | 06.23.2020 14:20 |  |  |  |  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.1 50.1       | <50.2 50.2       |  |  |  |  |
| Diesel Range Organics (DRO)        |                   | <50.1 50.1       | 98.9 50.2        |  |  |  |  |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.1 50.1       | <50.2 50.2       |  |  |  |  |
| Total GRO-DRO                      |                   | <50.1 50.1       | 98.9 50.2        |  |  |  |  |
| Total TPH                          |                   | <50.1 50.1       | 98.9 50.2        |  |  |  |  |

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

Jessica Kramer  
Project Manager



# Analytical Report 665077

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167**

**012920078**

**06.24.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.24.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **665077**

**PLU 167**

Project Address:

**Dan Moir:**

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) 665077. 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. 665077 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 Manager

*A Small Business and Minority Company*

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



## Sample Cross Reference 665077

LT Environmental, Inc., Arvada, CO

PLU 167

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| FS08A     | S      | 06.22.2020 14:10 | 4 ft         | 665077-001    |
| SW20      | S      | 06.22.2020 14:25 | 0 - 4 ft     | 665077-002    |



## CASE NARRATIVE

**Client Name:** *LT Environmental, Inc.*

**Project Name:** *PLU 167*

Project ID: 012920078  
Work Order Number(s): 665077

Report Date: 06.24.2020  
Date Received: 06.22.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 665077

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS08A** Matrix: Soil Date Received: 06.22.2020 15:30  
 Lab Sample Id: 665077-001 Date Collected: 06.22.2020 14:10 Sample Depth: 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.23.2020 17:11 Basis: Wet Weight  
 Seq Number: 3129782

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 549    | 10.0 | mg/kg | 06.23.2020 18:59 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.23.2020 12:00 Basis: Wet Weight  
 Seq Number: 3129754

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1 | mg/kg | 06.23.2020 11:42 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1 | mg/kg | 06.23.2020 11:42 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1 | mg/kg | 06.23.2020 11:42 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.1  | 50.1 | mg/kg | 06.23.2020 11:42 | U    | 1   |
| Total TPH                          | PHC635     | <50.1  | 50.1 | mg/kg | 06.23.2020 11:42 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 120        | %     | 70-135 | 06.23.2020 11:42 |      |
| o-Terphenyl    | 84-15-1    | 125        | %     | 70-135 | 06.23.2020 11:42 |      |



# Certificate of Analytical Results 665077

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS08A**  
Lab Sample Id: 665077-001

Matrix: Soil  
Date Collected: 06.22.2020 14:10

Date Received: 06.22.2020 15:30  
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129773

Prep Method: SW5035A

% Moisture:

Date Prep: 06.23.2020 14:19

Basis: Wet Weight

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 06.23.2020 17:41 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 06.23.2020 17:41 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 06.23.2020 17:41 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.23.2020 17:41 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 06.23.2020 17:41 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 06.23.2020 17:41 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 06.23.2020 17:41 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 99         | %     | 70-130 | 06.23.2020 17:41 |      |
| 4-Bromofluorobenzene | 460-00-4   | 95         | %     | 70-130 | 06.23.2020 17:41 |      |



# Certificate of Analytical Results 665077

LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW20** Matrix: Soil Date Received: 06.22.2020 15:30  
 Lab Sample Id: 665077-002 Date Collected: 06.22.2020 14:25 Sample Depth: 0 - 4 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 06.23.2020 17:11 Basis: Wet Weight  
 Seq Number: 3129782

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 1100   | 10.0 | mg/kg | 06.23.2020 19:17 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 06.23.2020 12:00 Basis: Wet Weight  
 Seq Number: 3129754

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.2       | 50.2 | mg/kg | 06.23.2020 14:20 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>98.9</b> | 50.2 | mg/kg | 06.23.2020 14:20 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.2       | 50.2 | mg/kg | 06.23.2020 14:20 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>98.9</b> | 50.2 | mg/kg | 06.23.2020 14:20 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>98.9</b> | 50.2 | mg/kg | 06.23.2020 14:20 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 125        | %     | 70-135 | 06.23.2020 14:20 |      |
| o-Terphenyl    | 84-15-1    | 127        | %     | 70-135 | 06.23.2020 14:20 |      |



# Certificate of Analytical Results 665077

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **SW20**  
Lab Sample Id: 665077-002

Matrix: Soil  
Date Collected: 06.22.2020 14:25

Date Received: 06.22.2020 15:30  
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3129773

Prep Method: SW5035A

% Moisture:

Date Prep: 06.23.2020 14:19

Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 06.23.2020 18:03     | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 06.23.2020 18:03     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 06.23.2020 18:03     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 06.23.2020 18:03     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 06.23.2020 18:03     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 06.23.2020 18:03     | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 06.23.2020 18:03     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 103               | %            | 70-130        | 06.23.2020 18:03     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 06.23.2020 18:03     |             |     |



## 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.      **ND** Not Detected.

**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.

PLU 167

## Analytical Method: Chloride by EPA 300

Seq Number: 3129782

MB Sample Id: 7706049-1-BLK

Matrix: Solid

LCS Sample Id: 7706049-1-BKS

Prep Method: E300P

Date Prep: 06.23.2020

LCSD Sample Id: 7706049-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 256        | 102      | 267         | 107       | 90-110 | 4    | 20        | mg/kg | 06.23.2020 18:47 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3129782

Parent Sample Id: 665077-001

Matrix: Soil

MS Sample Id: 665077-001 S

Prep Method: E300P

Date Prep: 06.23.2020

MSD Sample Id: 665077-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 549           | 202          | 760       | 104     | 754        | 103      | 90-110 | 1    | 20        | mg/kg | 06.23.2020 19:05 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3129782

Parent Sample Id: 665201-003

Matrix: Soil

MS Sample Id: 665201-003 S

Prep Method: E300P

Date Prep: 06.23.2020

MSD Sample Id: 665201-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 318           | 202          | 485       | 83      | 487        | 84       | 90-110 | 0    | 20        | mg/kg | 06.23.2020 20:27 | X    |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129754

MB Sample Id: 7706014-1-BLK

Matrix: Solid

LCS Sample Id: 7706014-1-BKS

Prep Method: SW8015P

Date Prep: 06.23.2020

LCSD Sample Id: 7706014-1-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) | <50.0     | 1000         | 943        | 94       | 916         | 92        | 70-135 | 3    | 35        | mg/kg | 06.23.2020 11:00 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1090       | 109      | 1050        | 105       | 70-135 | 4    | 35        | mg/kg | 06.23.2020 11:00 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 120     |         | 133      |          | 128       |           | 70-135 | %     | 06.23.2020 11:00 |
| o-Terphenyl    | 125     |         | 129      |          | 123       |           | 70-135 | %     | 06.23.2020 11:00 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129754

Matrix: Solid

MB Sample Id: 7706014-1-BLK

Prep Method: SW8015P

Date Prep: 06.23.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 06.23.2020 10:40 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3129754

Parent Sample Id: 665077-001

Matrix: Soil

MS Sample Id: 665077-001 S

Prep Method: SW8015P

Date Prep: 06.23.2020

MSD Sample Id: 665077-001 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) | <50.2         | 1000         | 933       | 93      | 970        | 97       | 70-135 | 4    | 35        | mg/kg | 06.23.2020 12:22 |      |
| Diesel Range Organics (DRO)       | <50.2         | 1000         | 1100      | 110     | 1120       | 112      | 70-135 | 2    | 35        | mg/kg | 06.23.2020 12:22 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 131     |         | 134      |          | 70-135 | %     | 06.23.2020 12:22 |
| o-Terphenyl    | 133     |         | 133      |          | 70-135 | %     | 06.23.2020 12:22 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129773

MB Sample Id: 7706053-1-BLK

Matrix: Solid

LCS Sample Id: 7706053-1-BKS

Prep Method: SW5035A

Date Prep: 06.23.2020

LCSD Sample Id: 7706053-1-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        | 0.106      | 106      | 0.107       | 107       | 70-130 | 1    | 35        | mg/kg | 06.23.2020 15:42 |      |
| Toluene      | <0.00200  | 0.100        | 0.104      | 104      | 0.106       | 106       | 70-130 | 2    | 35        | mg/kg | 06.23.2020 15:42 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0990     | 99       | 0.100       | 100       | 71-129 | 1    | 35        | mg/kg | 06.23.2020 15:42 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.199      | 100      | 0.203       | 102       | 70-135 | 2    | 35        | mg/kg | 06.23.2020 15:42 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0985     | 99       | 0.102       | 102       | 71-133 | 3    | 35        | mg/kg | 06.23.2020 15:42 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 99      |         | 99       |          | 101       |           | 70-130 | %     | 06.23.2020 15:42 |
| 4-Bromofluorobenzene | 94      |         | 96       |          | 104       |           | 70-130 | %     | 06.23.2020 15:42 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3129773

Parent Sample Id: 665077-001

Matrix: Soil

MS Sample Id: 665077-001 S

Prep Method: SW5035A

Date Prep: 06.23.2020

MSD Sample Id: 665077-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200      | 0.100        | 0.109     | 109     | 0.112      | 112      | 70-130 | 3    | 35        | mg/kg | 06.24.2020 01:44 |      |
| Toluene      | <0.00200      | 0.100        | 0.101     | 101     | 0.111      | 111      | 70-130 | 9    | 35        | mg/kg | 06.24.2020 01:44 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.0934    | 93      | 0.108      | 108      | 71-129 | 14   | 35        | mg/kg | 06.24.2020 01:44 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.188     | 94      | 0.220      | 111      | 70-135 | 16   | 35        | mg/kg | 06.24.2020 01:44 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.0948    | 95      | 0.107      | 107      | 71-133 | 12   | 35        | mg/kg | 06.24.2020 01:44 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 99      |         | 99       |          | 70-130 | %     | 06.24.2020 01:44 |
| 4-Bromofluorobenzene | 103     |         | 102      |          | 70-130 | %     | 06.24.2020 01:44 |

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

**Work Order No:**

665077

[www.xenco.com](http://www.xenco.com)

Page 0

| Work Order Comments                                                                                                                                                                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Program:</b> UST/PST <input type="checkbox"/> RRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/><br><b>State of Project:</b>         |  |
| <b>Reporting Level:</b> I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |
| <b>Deliverables:</b> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:                                                                                                                                |  |

[illegible][illegible]

| Sample Identification                                                              | Matrix | Date Sampled | Time Sampled | Depth | Number | TPH (EP) | BTEX (E) | Chloride | Sample Comments |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------|--------|--------------|--------------|-------|--------|----------|----------|----------|-----------------|--|--|--|--|--|--|--|--|--|
| F-508A                                                                             | S      | 6-22-20      | 1410         | 4'    | 1      | X        | X        | X        |                 |  |  |  |  |  |  |  |  |  |
| SW20                                                                               | S      | 6-22-20      | 1425         | 0-4'  | 1      | X        | X        | X        |                 |  |  |  |  |  |  |  |  |  |
|  |        |              |              |       |        |          |          |          |                 |  |  |  |  |  |  |  |  |  |

|  | 8RCRA | 13PPM | Texas 11 | Al | Sb | As | Ba | Be | B | Cd | Ca | Cr | Co | Cu | Ea | Pb | Mn | Mg | Mo | Ni | K | Se | Az | ClO <sub>3</sub> | N- | S- | Tr | C | H | V | Z |
|--|-------|-------|----------|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------------------|----|----|----|---|---|---|---|
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |
|  |       |       |          | </ |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |   |   |   |   |

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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 \$75.00 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.

| Relinquished by: (Signature)                                                      | Received by: (Signature)                                                          | Date/Time     | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|------------------------------|--------------------------|-----------|
|  |  | 6/22/20 15:30 |                              |                          |           |
|                                                                                   |                                                                                   |               |                              |                          |           |
|                                                                                   |                                                                                   |               |                              |                          |           |
|                                                                                   |                                                                                   |               |                              |                          |           |
|                                                                                   |                                                                                   |               |                              |                          |           |

## XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06.22.2020 03.30.00 PM

Work Order #: 665077

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 3.6      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Samples recieved in bulk containers.

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

Analyst:

PH Device/Lot#:

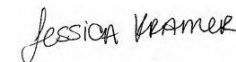
Checklist completed by:



Elizabeth McClellan

Date: 06.22.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.24.2020

## Certificate of Analysis Summary 668971

LT Environmental, Inc., Arvada, CO

Project Name: PLU 167

Project Id: 012920078

Contact: Dan Moir

Project Location:

Date Received in Lab: Mon 08.03.2020 16:00

Report Date: 08.04.2020 11:26

Project Manager: Jessica Kramer

|                                    |                                                                                                                                        |  |  |  |  |  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <b>Analysis Requested</b>          | <b>Lab Id:</b> 668971-001<br><b>Field Id:</b> FS23<br><b>Depth:</b> 0.5- ft<br><b>Matrix:</b> SOIL<br><b>Sampled:</b> 08.03.2020 10:50 |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> 08.03.2020 16:34<br><b>Analyzed:</b> 08.03.2020 18:10<br><b>Units/RL:</b> mg/kg RL                                   |  |  |  |  |  |
| Benzene                            | <0.00200 0.00200                                                                                                                       |  |  |  |  |  |
| Toluene                            | <0.00200 0.00200                                                                                                                       |  |  |  |  |  |
| Ethylbenzene                       | <0.00200 0.00200                                                                                                                       |  |  |  |  |  |
| m,p-Xylenes                        | <0.00401 0.00401                                                                                                                       |  |  |  |  |  |
| o-Xylene                           | <0.00200 0.00200                                                                                                                       |  |  |  |  |  |
| Total Xylenes                      | <0.00200 0.00200                                                                                                                       |  |  |  |  |  |
| Total BTEX                         | <0.00200 0.00200                                                                                                                       |  |  |  |  |  |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> 08.03.2020 17:01<br><b>Analyzed:</b> 08.03.2020 18:15<br><b>Units/RL:</b> mg/kg RL                                   |  |  |  |  |  |
| Chloride                           | 11.4 9.92                                                                                                                              |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>           | <b>Extracted:</b> 08.03.2020 16:11<br><b>Analyzed:</b> 08.03.2020 16:55<br><b>Units/RL:</b> mg/kg RL                                   |  |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO)  | <50.1 50.1                                                                                                                             |  |  |  |  |  |
| Diesel Range Organics (DRO)        | <50.1 50.1                                                                                                                             |  |  |  |  |  |
| Motor Oil Range Hydrocarbons (MRO) | <50.1 50.1                                                                                                                             |  |  |  |  |  |
| Total GRO-DRO                      | <50.1 50.1                                                                                                                             |  |  |  |  |  |
| Total TPH                          | <50.1 50.1                                                                                                                             |  |  |  |  |  |

BRL - Below Reporting Limit

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





# Analytical Report 668971

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**PLU 167**

**012920078**

**08.04.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.04.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **668971**

**PLU 167**

Project Address:

**Dan Moir:**

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 Eurofins Xenco, LLC Report Number(s) 668971. 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 Eurofins Xenco, LLC. 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. 668971 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 Eurofins Xenco, LLC 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 Manager

*A Small Business and Minority Company*

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



## Sample Cross Reference 668971

LT Environmental, Inc., Arvada, CO

PLU 167

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| FS23      | S      | 08.03.2020 10:50 | 0.5 ft       | 668971-001    |



## CASE NARRATIVE

**Client Name: LT Environmental, Inc.**

**Project Name: PLU 167**

Project ID: 012920078  
Work Order Number(s): 668971

Report Date: 08.04.2020  
Date Received: 08.03.2020

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**Sample receipt non conformances and comments:**

V1.001 Revision (client email) Changed sample name to read FS23

---

**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 668971

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS23** Matrix: Soil Date Received: 08.03.2020 16:00  
 Lab Sample Id: 668971-001 Date Collected: 08.03.2020 10:50 Sample Depth: 0.5 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 08.03.2020 17:01 Basis: Wet Weight  
 Seq Number: 3133430

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 11.4   | 9.92 | mg/kg | 08.03.2020 18:15 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 08.03.2020 16:11 Basis: Wet Weight  
 Seq Number: 3133363

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1 | mg/kg | 08.03.2020 16:55 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1 | mg/kg | 08.03.2020 16:55 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1 | mg/kg | 08.03.2020 16:55 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.1  | 50.1 | mg/kg | 08.03.2020 16:55 | U    | 1   |
| Total TPH                          | PHC635     | <50.1  | 50.1 | mg/kg | 08.03.2020 16:55 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 08.03.2020 16:55 |      |
| o-Terphenyl    | 84-15-1    | 95         | %     | 70-135 | 08.03.2020 16:55 |      |



# Certificate of Analytical Results 668971

## LT Environmental, Inc., Arvada, CO

PLU 167

Sample Id: **FS23**  
Lab Sample Id: 668971-001

Matrix: Soil  
Date Collected: 08.03.2020 10:50

Date Received: 08.03.2020 16:00  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 08.03.2020 16:34

Basis: Wet Weight

Seq Number: 3133428

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 08.03.2020 18:10 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 08.03.2020 18:10 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 08.03.2020 18:10 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 08.03.2020 18:10 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 08.03.2020 18:10 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 08.03.2020 18:10 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 08.03.2020 18:10 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 104        | %     | 70-130 | 08.03.2020 18:10 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 101        | %     | 70-130 | 08.03.2020 18:10 |      |

## 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.      **ND** Not Detected.

**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.

PLU 167

**Analytical Method: Chloride by EPA 300**

Seq Number: 3133430

MB Sample Id: 7708638-1-BLK

Matrix: Solid

LCS Sample Id: 7708638-1-BKS

Prep Method: E300P

Date Prep: 08.03.2020

LCSD Sample Id: 7708638-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 268        | 107      | 267         | 107       | 90-110 | 0    | 20        | mg/kg | 08.03.2020 16:56 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3133430

Parent Sample Id: 668916-001

Matrix: Soil

MS Sample Id: 668916-001 S

Prep Method: E300P

Date Prep: 08.03.2020

MSD Sample Id: 668916-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 243           | 200          | 448       | 103     | 449        | 103      | 90-110 | 0    | 20        | mg/kg | 08.03.2020 17:13 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3133430

Parent Sample Id: 668975-004

Matrix: Soil

MS Sample Id: 668975-004 S

Prep Method: E300P

Date Prep: 08.03.2020

MSD Sample Id: 668975-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 61.3          | 200          | 271       | 105     | 269        | 104      | 90-110 | 1    | 20        | mg/kg | 08.03.2020 19:06 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3133363

MB Sample Id: 7708598-1-BLK

Matrix: Solid

LCS Sample Id: 7708598-1-BKS

Prep Method: SW8015P

Date Prep: 08.03.2020

LCSD Sample Id: 7708598-1-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) | <50.0     | 1000         | 893        | 89       | 900         | 90        | 70-135 | 1     | 35               | mg/kg | 08.03.2020 12:24 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 950        | 95       | 962         | 96        | 70-135 | 1     | 35               | mg/kg | 08.03.2020 12:24 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date    |       |                  |      |
| 1-Chlorooctane                    | 89        |              | 107        |          | 108         |           | 70-135 | %     | 08.03.2020 12:24 |       |                  |      |
| o-Terphenyl                       | 93        |              | 100        |          | 102         |           | 70-135 | %     | 08.03.2020 12:24 |       |                  |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3133363

Matrix: Solid

MB Sample Id: 7708598-1-BLK

Prep Method: SW8015P

Date Prep: 08.03.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 08.03.2020 12:04 |      |

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.

PLU 167

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3133363

Parent Sample Id: 668916-001

Matrix: Soil

MS Sample Id: 668916-001 S

Prep Method: SW8015P

Date Prep: 08.03.2020

MSD Sample Id: 668916-001 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) | <50.1         | 1000         | 869       | 87      | 884        | 88       | 70-135 | 2    | 35        | mg/kg | 08.03.2020 13:25 |      |
| Diesel Range Organics (DRO)       | <50.1         | 1000         | 956       | 96      | 978        | 98       | 70-135 | 2    | 35        | mg/kg | 08.03.2020 13:25 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 106     |         | 106      |          | 70-135 | %     | 08.03.2020 13:25 |
| o-Terphenyl    | 101     |         | 102      |          | 70-135 | %     | 08.03.2020 13:25 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3133428

MB Sample Id: 7708618-1-BLK

Matrix: Solid

LCS Sample Id: 7708618-1-BKS

Prep Method: SW5035A

Date Prep: 08.03.2020

LCSD Sample Id: 7708618-1-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        | 0.105      | 105      | 0.113       | 113       | 70-130 | 7    | 35        | mg/kg | 08.03.2020 15:45 |      |
| Toluene      | <0.00200  | 0.100        | 0.0997     | 100      | 0.108       | 108       | 70-130 | 8    | 35        | mg/kg | 08.03.2020 15:45 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0930     | 93       | 0.100       | 100       | 71-129 | 7    | 35        | mg/kg | 08.03.2020 15:45 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.189      | 95       | 0.204       | 102       | 70-135 | 8    | 35        | mg/kg | 08.03.2020 15:45 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0928     | 93       | 0.100       | 100       | 71-133 | 7    | 35        | mg/kg | 08.03.2020 15:45 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 98      |         | 99       |          | 98        |           | 70-130 | %     | 08.03.2020 15:45 |
| 4-Bromofluorobenzene | 94      |         | 101      |          | 100       |           | 70-130 | %     | 08.03.2020 15:45 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3133428

Parent Sample Id: 668916-001

Matrix: Soil

MS Sample Id: 668916-001 S

Prep Method: SW5035A

Date Prep: 08.03.2020

MSD Sample Id: 668916-001 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        | 0.129     | 129     | 0.130      | 129      | 70-130 | 1    | 35        | mg/kg | 08.03.2020 16:30 |      |
| Toluene      | <0.00201      | 0.100        | 0.122     | 122     | 0.123      | 122      | 70-130 | 1    | 35        | mg/kg | 08.03.2020 16:30 |      |
| Ethylbenzene | <0.00201      | 0.100        | 0.114     | 114     | 0.113      | 112      | 71-129 | 1    | 35        | mg/kg | 08.03.2020 16:30 |      |
| m,p-Xylenes  | <0.00402      | 0.201        | 0.231     | 115     | 0.228      | 113      | 70-135 | 1    | 35        | mg/kg | 08.03.2020 16:30 |      |
| o-Xylene     | <0.00201      | 0.100        | 0.113     | 113     | 0.112      | 111      | 71-133 | 1    | 35        | mg/kg | 08.03.2020 16:30 |      |

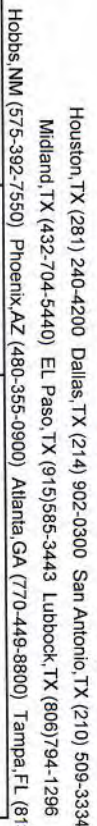
| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 98      |         | 99       |          | 70-130 | %     | 08.03.2020 16:30 |
| 4-Bromofluorobenzene | 103     |         | 104      |          | 70-130 | %     | 08.03.2020 16:30 |

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

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

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

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



## Chain of Custody

**Work Order No.:**

128977

|                  |  |                                        |                         |                                |
|------------------|--|----------------------------------------|-------------------------|--------------------------------|
| Project Manager: |  | Dan Moir                               | Bill to: (if different) | Kyle Litrell                   |
| Company Name:    |  | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                     |
| Address:         |  | 3300 North A Street                    | Address:                | 3104 East Green Street         |
| City, State ZIP: |  | Midland, TX 79705                      | City, State ZIP:        | Carlsbad, NM 88220             |
| Phone:           |  | (432) 236-3849                         | Email:                  | slc@ltenv.com, dmoir@ltenv.com |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Work Order Comments                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |
| Program: UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/><br>State of Project:<br>Reporting Level I <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/><br>Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: |  |  |  |  |

|                                                               |                                                                         |                                                                                 |                                                                              |                  |
|---------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------|
| Project Name:                                                 | PLU 167                                                                 | Turn Around                                                                     | ANALYSIS REQUEST                                                             | Work Order Notes |
| Project Number:                                               | 612920078                                                               | Routine <input type="checkbox"/>                                                |                                                                              |                  |
| P.O. Number:                                                  |                                                                         | Rush: <input checked="" type="checkbox"/>                                       |                                                                              |                  |
| Sampler's Name:                                               | Spencer Lo                                                              | Due Date:                                                                       |                                                                              |                  |
| <b>SAMPLE RECEIPT</b>                                         |                                                                         |                                                                                 |                                                                              |                  |
| Temperature (°C):                                             | 4.4 / 4.2                                                               | Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID   |
| Received Intact:                                              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No     | TMM007                                                                          |                                                                              |                  |
| Cooler Custody Seals:                                         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Correction Factor: -0.2                                                         |                                                                              |                  |
| Sample Custody Seals:                                         | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Total Containers: 1                                                             |                                                                              |                  |
| Number of Containers                                          |                                                                         |                                                                                 |                                                                              |                  |
| EPA 8015)                                                     |                                                                         |                                                                                 |                                                                              |                  |
| (EPA 0=8021)                                                  |                                                                         |                                                                                 |                                                                              |                  |
| de (EPA 300.0)                                                |                                                                         |                                                                                 |                                                                              |                  |
|                                                               |                                                                         |                                                                                 |                                                                              |                  |
|                                                               |                                                                         |                                                                                 |                                                                              |                  |
|                                                               |                                                                         |                                                                                 |                                                                              |                  |
|                                                               |                                                                         |                                                                                 |                                                                              |                  |
|                                                               |                                                                         |                                                                                 |                                                                              |                  |
|                                                               |                                                                         |                                                                                 |                                                                              |                  |
| TAT starts the day received by the lab, if received by 4:30pm |                                                                         |                                                                                 |                                                                              |                  |

[illegible]

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco 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 Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature)                                                      | Received by: (Signature)                                                          | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|------------------------------|--------------------------|-----------|
|  |  | 8/3/20 16:00 |                              |                          |           |
|                                                                                   |                                                                                   |              |                              |                          |           |
|                                                                                   |                                                                                   |              |                              |                          |           |
|                                                                                   |                                                                                   |              |                              |                          |           |
|                                                                                   |                                                                                   |              |                              |                          |           |

Revised Date 05/14/18 Rev. 2018.1

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 08.03.2020 04.00.00 PM

Work Order #: 668971

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 4.2      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Sample received in bulk container.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 08.03.2020

Checklist reviewed by:



Jessica Kramer

Date: 08.04.2020