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 | NAB1914255662 |
|----------------|---------------|
| District RP | 2RP-5439 |
| Facility ID | |
| Application ID | pAB1914255421 |

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) NAB1914255662 |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 | |

Location of Release Source

Latitude 32.255264°

(NAD 83 in decimal degrees to 5 decimal places)

| Site Name Los Medanos 36-23-30 State #703H | Site Type Production Well Facility API# (if applicable) 30-015-45314 | |
|--|--|--|
| Date Release Discovered 5/8/2019 | | |

| Unit Letter | Section | Township | Range | County | |
|-------------|---------|----------|-------|--------|--|
| N | 36 | 238 | 30E | Eddy | |

Surface Owner: State Federal Tribal Private (Name: New Mexico

Nature and Volume of Release

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

| Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
|------------------------|--|---|
| Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of total dissolved solids (TDS) in the produced water >10000 mg/l? | Yes No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| X Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| HCl Solution 26-36.95% | 27.38 barrels | 27.26 barrels |
| Cause of Palaosa | | |

Cause of Release

During frac preparation activities, contract personnel discovered hydrochloric acid seeping from the primary acid tank into lined containment and the well pad. Fluid was transferred to a secondary tank and the primary tank was repaired. The secondary tank then developed a leak and was also repaired. Free fluid was recovered from the containment. Additional third party resources have been retained to assist with remediation. Remediation activities will begin when pending flowback activities have been completed.

Yes 🗌 No

| Form C-141 | State of New Mexico | Incident ID | NAB1914255662 |
|-----------------------|--|----------------------------------|---------------|
| Page 2 | Oil Conservation Division | District RP | 2RP-5439 |
| | | | 2RF-3439 |
| | | Facility ID | |
| | 8 | Application ID | pAB1914255421 |
| | | | |
| Was this a major | If YES, for what reason(s) does the responsible part | y consider this a major release? | , |
| release as defined by | | | |
| 19.15.29.7(A) NMAC? | An unputherized release of a valuere of 25 hours is | | |

An unauthorized release of a volume of 25 barrels or more

| YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | If YES, was immediate not |
|---|--|
| ice provided by Bryan Foust to Mike Bratcher, Rob Hamlet, Victoria Venegas, and Jim Griswold (NMOCD), and Ryan Mann (SLO) 5/9/2019 by email | Notice provided by Bryan H on 5/9/2019 by email |

Initial Response

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

The source of the release has been stopped.

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

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

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

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

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

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

| Printed Name: | Title: SH&E Supervisor |
|---|------------------------|
| Signature Contraction email: Kyle hittrell@xtoenergy.com | Date: |
| OCD Only Received by: | Date: |

Form C-141 Page 3

State of New Mexico Oil Conservation Division

| Incident ID | NAB1914255662 |
|----------------|---------------|
| District RP | 2RP-5439 |
| Facility ID | |
| Application ID | pAB1914255421 |

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- ☑ Field data☑ Data table
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ 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.

| eived by OCD: 12/18/20 |)19 2:20:55 PM | | | Page 4 of |
|---|---|---|--|--------------------------|
| Form C-141 State of New Mexic | | со | Incident ID | NAB1914255662 |
| Page 4 | Oil Conservation Divi | ision | District RP | 2RP-5439 |
| | | | Facility ID | |
| | | | Application ID | pAB1914255421 |
| failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: Signature: email: Kyle_Li | onment. The acceptance of a C-141 report l tigate and remediate contamination that pose e of a C-141 report does not relieve the oper <u>Kyle Littrell</u> <u>Kyle Littrell</u> | se a threat to groundwater, sur rator of responsibility for com Title: <u>SH&F</u> Date: <u>12/18/20</u> | face water, human health ppliance with any other fe Supervisor | n or the environment. In |
| OCD Only Received by: | | Date: <u>5/.</u> | 22/2019 | - |

Form C-141 Page 6 State of New Mexico Oil Conservation Division

| Incident ID | NAB1914255662 |
|----------------|---------------|
| District RP | 2RP-5439 |
| Facility ID | |
| Application ID | pAB1914255421 |

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 |
|--|------------------|---|
| Printed Name: <u>Kyle Littrell</u> Signature: <u>Kyle Littrell</u> | Date: | 12/18/2019 |
| email:Kyle_Littrell@xtoenergy.com | Telephone: | 432-221-7331 |
| | | |
| | | |
| OCD Only | | |
| Received by: | Dat | e: <u>5/22/2019</u> |
| Closure approval by the OCD does not relieve the responsible paremediate contamination that poses a threat to groundwater, surfaparty of compliance with any other federal, state, or local laws a | ace water, humai | health, or the environment nor does not relieve the responsible |
| Closure Approved by: | D | ate: |
| Printed Name: | Т | `itle: |

LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432,704,5178



December 18, 2019

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

RE: Closure Request Los Medanos 36-23-30 State #703H Remediation Permit Number 2RP-5439 Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following request detailing site assessment and soil sampling activities at the Los Medanos 36-23-30 State #703H (Site) in Unit N, Section 36, Township 23 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 impacts to soil following a release of hydrochloric acid into lined containment and the well pad at the northern central portion of the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Closure Request and requesting No Further Action (NFA) for Remediation Permit (RP) Number 2RP-5439.

RELEASE BACKGROUND

On May 8, 2019, during preparation for hydraulic fracturing activities, a leak from the primary acid tank was discovered resulting in the release of hydrochloric acid into lined containment and the well pad at the Site. Fluid was transferred to a secondary tank while the primary tank was being repaired. The secondary tank developed a leak, resulting in an additional release of hydrochloric acid and was also repaired. The total release from both the primary and secondary frac tanks was approximately 27.38 barrels (bbls). Freestanding acid was neutralized and recovered from the containment area at a volume estimated to be approximately 27.26 bbls. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on May 20, 2019, and was assigned RP Number 2RP-5439 (Attachment 1).

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





Bratcher, M. Page 2

(NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is the United States Geological Survey (USGS) well 321544103515202, located 1.70 miles west-northwest of the Site. The water well has a depth to groundwater of approximately 417 feet bgs and a total depth of 563 feet bgs. Ground surface elevation at the water well location is 3,404 feet above mean seal level (amsl). The closest continuously-flowing water or significant watercourse to the Site is a tributary to an unknown body of water located approximately 2,143 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake, and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a low potential karst area.

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

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On September 16, 2019, LTE personnel conducted Site reconnaissance to evaluate the release extent based on information provided on the Form C-141 and visual observations. LTE personnel collected four preliminary soil samples (SS01 through SS04) within the release extent from a depth of approximately 0.5 feet bgs to assess the presence or absence of soil impacts at the ground surface. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples 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 shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range





Bratcher, M. Page 3

organics (ORO) following EPA Method 8015M/D; Chloride following EPA Method 300.0; and pH following EPA Method 9045D.

Based on laboratory analytical results for the preliminary soil samples SS01 through SS04, excavation activities did not appeared to be warranted; however, additional assessment activities were scheduled to further confirm the presence or absence of impacted soil. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 2.

On November 20, 2019, LTE personnel returned to the Site to oversee additional soil assessment activities. Four potholes (PH01 through PH04) were advanced using a track-mounted backhoe to a depth of approximately 2 feet bgs within the release extent. Soil samples were collected at depths of approximately 1 foot bgs (PH01 through PH04) and 2 feet bgs (PH01A through PH04A) at each pothole location.

Soil from the boreholes were field screened for volatile aromatic hydrocarbons utilizing a PID and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for each borehole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Midland, Texas. All potholes were backfilled with the same soil that was removed during the investigation at each location. The preliminary delineation soil sample and pothole locations are depicted on Figure 2.

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SSO1 through SSO4 collected at approximately 0.5 feet bgs, in samples PHO1 through PHO4 collected at 1 foot bgs, and in samples PHO1A through PHO4A collected at 2 feet bgs. In addition, pH was also analyzed in samples PHO1 through PHO4 collected at 1 foot bgs, and in samples PHO1 through PHO4A collected at 2 feet bgs to ensure that no remaining acidic concentrations were left within the release area. Sample results ranged from 8.03 to 8.67. Laboratory analytical results are presented on Figure 2 and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 3.

CONCLUSIONS

Preliminary soil samples SS01 through SS04 and delineation soil samples PH01/PH01A through PH04/PH04A were collected from within the release extent from depths ranging from 0.5 feet to 2 feet bgs to assess for the presence or absence of soil impacts resulting from the release discovered May 8, 2019. Laboratory analytical results for all soil samples indicated benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, pH values in soil samples did not indicate any impact to the soil from the release.





Bratcher, M. Page 4

Based on initial response efforts and soil sample laboratory analytical results compliant with the Closure Criteria, no impacted soil was identified and no soil excavation was required as a result of the hydrochloric acid release. XTO requests NFA for RP Number 2RP-5439. An updated Form C-141 is included as Attachment 1.

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

Ushley L. ager

Ashley L. Ager, P.G.

Senior Geologist

Sincerely,

LT ENVIRONMENTAL, INC.

DI

Christa-Marie Leibli, P.G. Senior Hydrogeologist

cc: Kyle Littrell, XTO Ryan Mann, State Land Office Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:

- Figure 1 Site Location Map
- Figure 2 Soil Sample Locations

Table 1Soil Analytical Results

Attachment 1 Initial/Final NMOCD Form C-141 (2RP-5439)

Attachment 2 Photographic Log

Attachment 3 Lithologic/Soil Sampling Logs

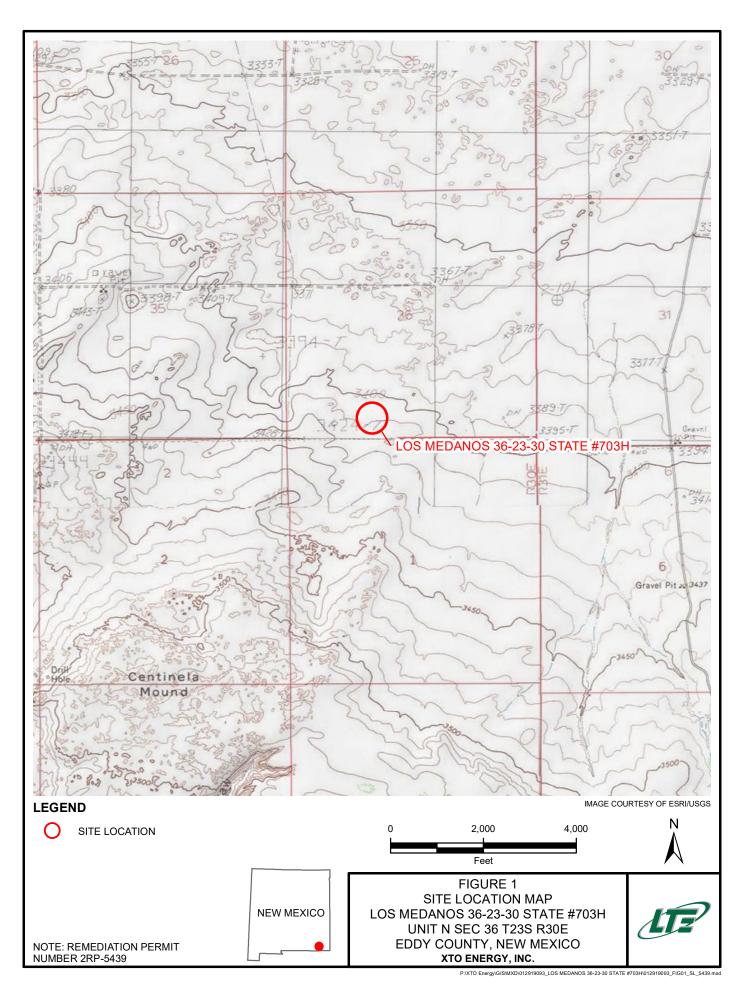
Attachment 4 Laboratory Analytical Reports

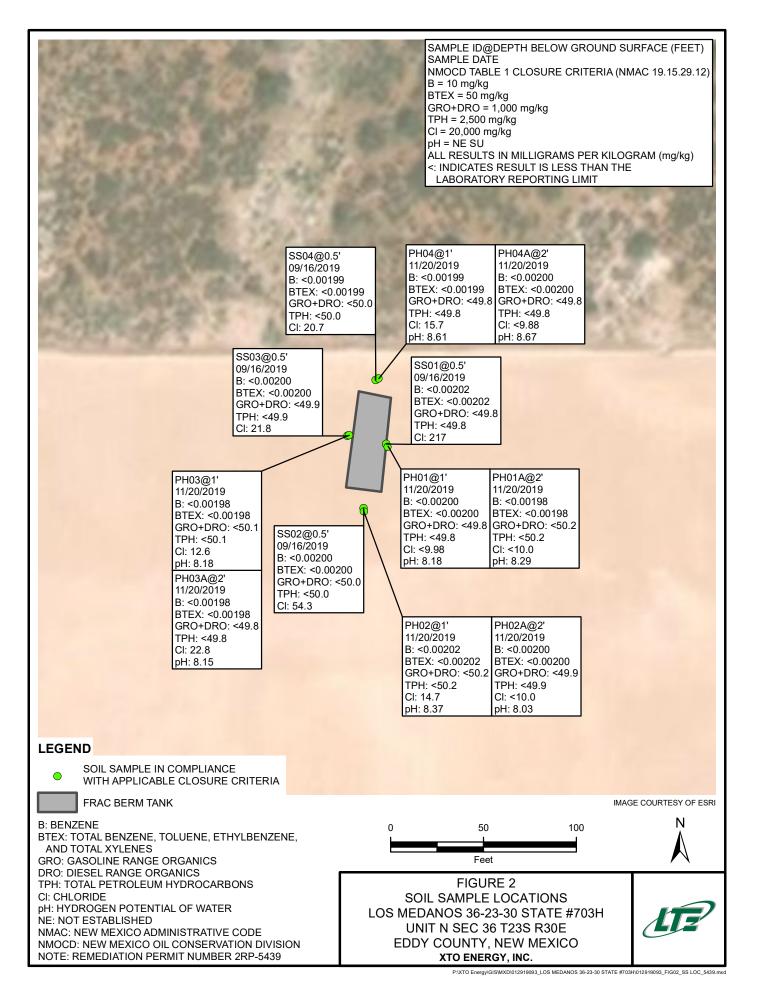


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FIGURES







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TABLES

LT?

TABLE 1 SOIL ANALYTICAL RESULTS

LOS MEDANOS 36-23-30 STATE #703H REMEDIATION PERMIT NUMBER 2RP-5439 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) | pH in Water (SU) | Temperature (Deg °C) |
|----------------|-------------------------------|----------------|--------------------|--------------------|------------------------------|-----------------------------|--------------------------|----------------|----------------|----------------|-----------------------------|----------------|---------------------|------------------------|-------------------------|
| NMOCD Table | e 1 Closure Crit | eria | 10 | NE | NE | NE | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 | NE | NE |
| SS01 | 0.5 | 09/16/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 217 | | |
| SS02 | 0.5 | 09/16/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 54.3 | | |
| SS03 | 0.5 | 09/16/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 21.8 | | |
| SS04 | 0.5 | 09/16/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 20.7 | | |
| PH01 | 1 | 11/20/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | <9.98 | 8.18 | 23.2 |
| PH01A | 2 | 11/20/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | <10.0 | 8.29 | 24.7 |
| PH02 | 1 | 11/20/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 14.7 | 8.37 | 25.2 |
| PH02A | 2 | 11/20/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <10.0 | 8.03 | 24.7 |
| PH03 | 1 | 11/20/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 12.6 | 8.18 | 24.9 |
| PH03A | 2 | 11/20/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 22.8 | 8.15 | 24.6 |
| PH04 | 1 | 11/20/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 15.7 | 8.61 | 24.1 |
| PH04A | 2 | 11/20/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | <9.88 | 8.67 | 23.1 |

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</td>

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



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ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG



Photograph 1: South facing view of frac tank and release extent.



Photograph 3: North facing view of site location.



Photograph 2: East facing view of site location.



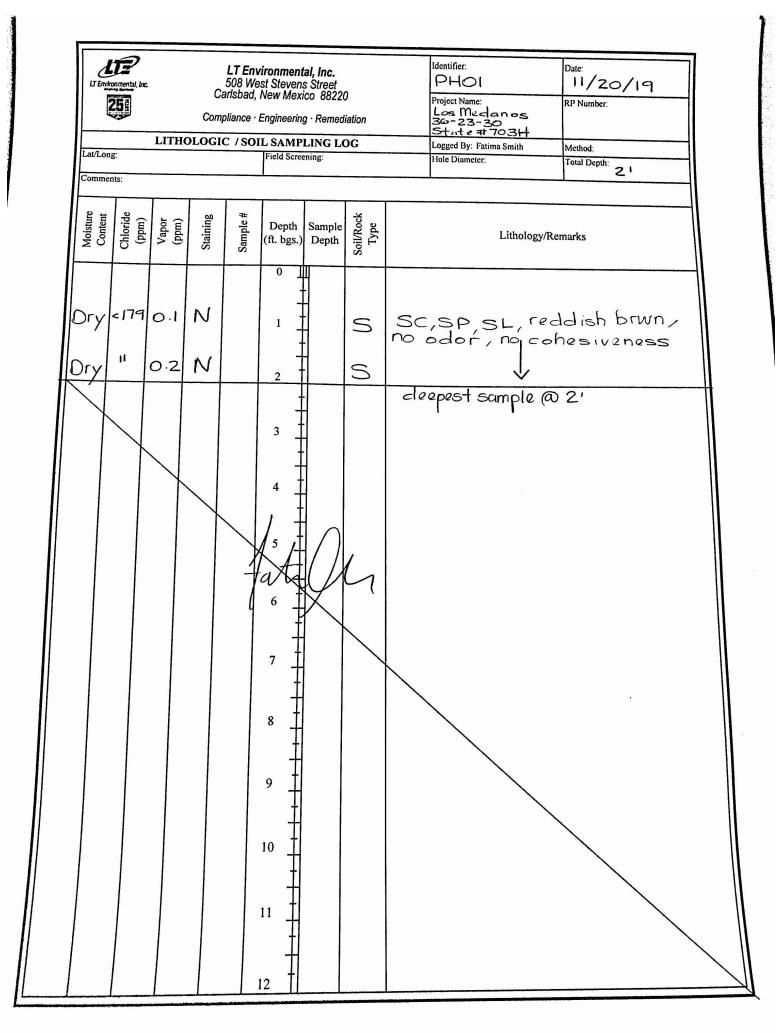
Photograph 4: East facing view of frac tank and release extent.

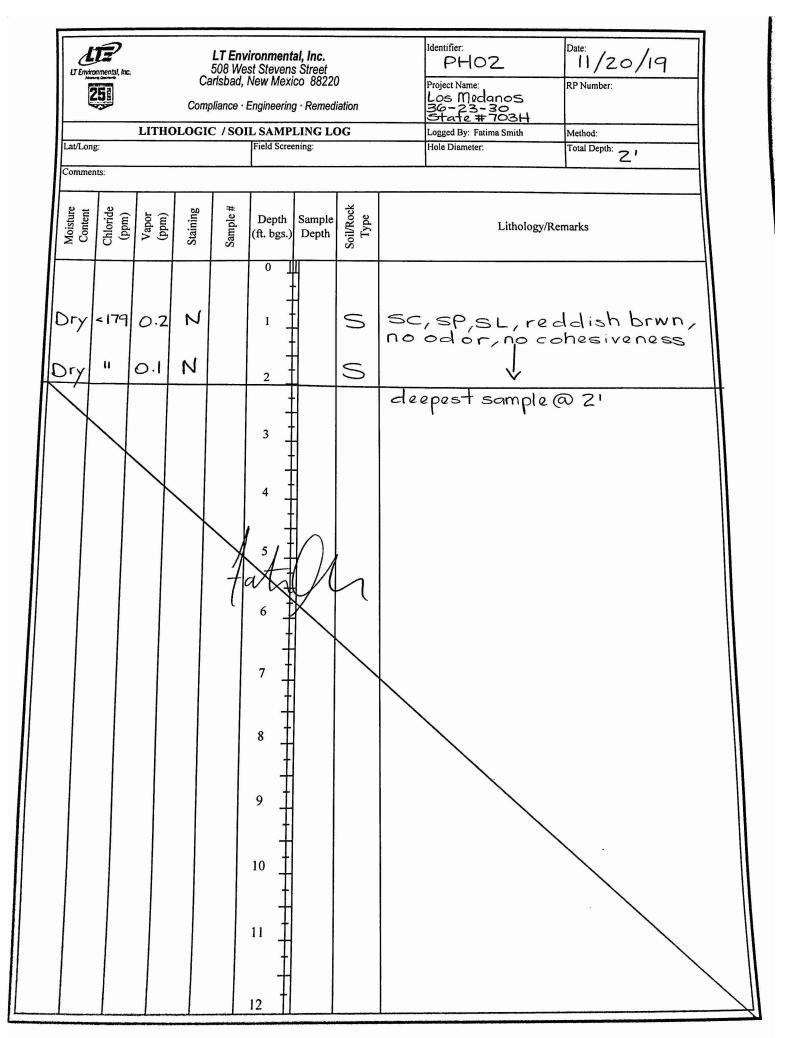
Los Medanos 36-23-30 State #703H Eddy County, New Mexico Photographs Taken: September 16, 2019 – August 15, 2019

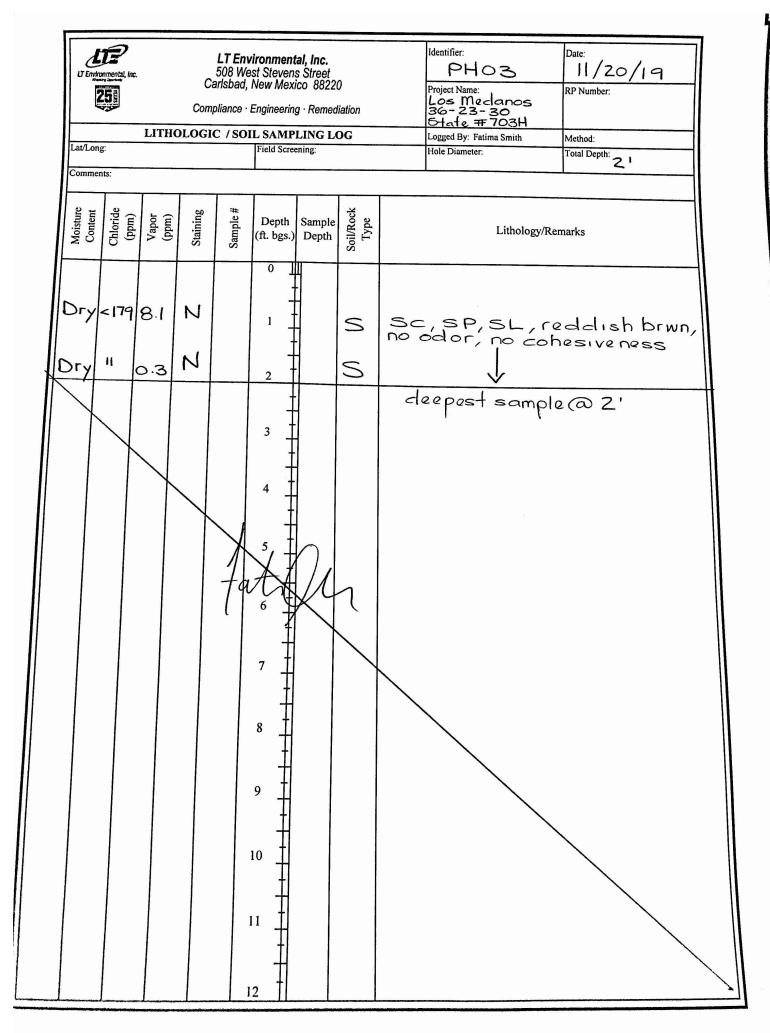


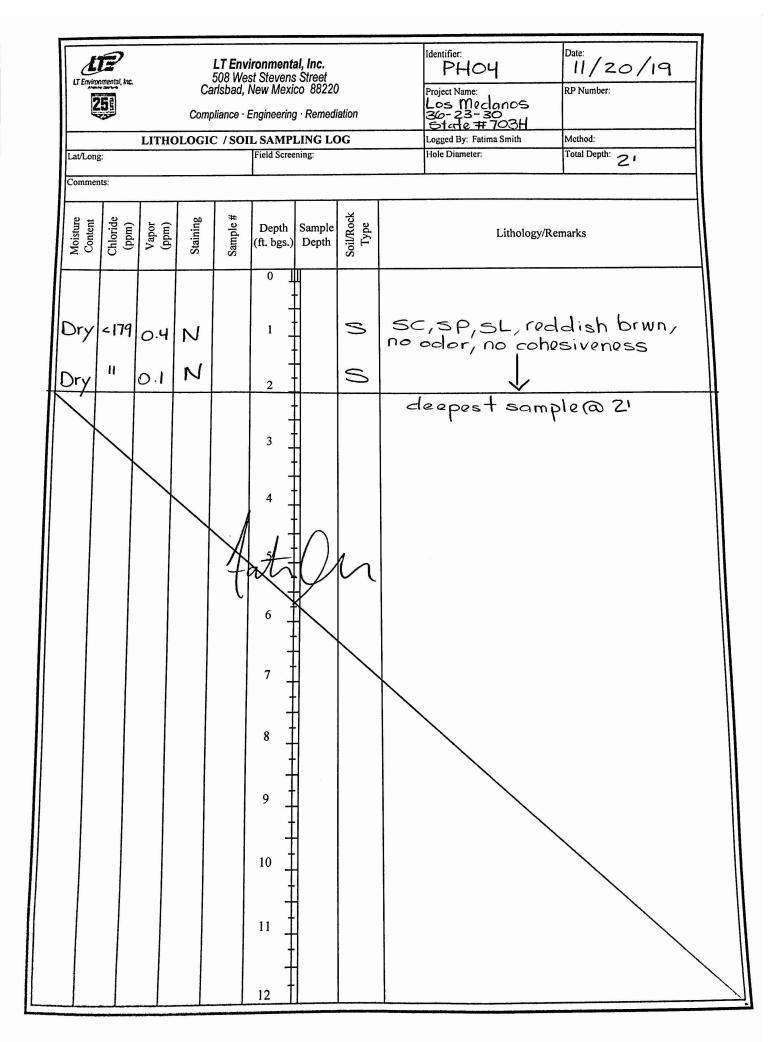
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Analytical Report 637051

for

LT Environmental, Inc.

Project Manager: Dan Moir

Los Medanos 36-23-30 State #703H

012919093

20-SEP-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142), North Carolina (681)

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

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



20-SEP-19

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

Reference: XENCO Report No(s): 637051 Los Medanos 36-23-30 State #703H Project Address: Eddy County

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) 637051. 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. 637051 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Vermer

 Jessica Kramer

 Project Assistant

 Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies.

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

Sample Cross Reference 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SS01 | S | 09-16-19 12:48 | 0.5 ft | 637051-001 |
| SS02 | S | 09-16-19 12:49 | 0.5 ft | 637051-002 |
| SS03 | S | 09-16-19 12:50 | 0.5 ft | 637051-003 |
| SS04 | S | 09-16-19 12:51 | 0.5 ft | 637051-004 |

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CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Los Medanos 36-23-30 State #703H

 Project ID:
 012919093

 Work Order Number(s):
 637051

Report Date: 20-SEP-19 Date Received: 09/17/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3101869 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:012919093Contact:Dan MoirProject Location:Eddy County

Certificate of Analysis Summary 637051

LT Environmental, Inc., Arvada, CO

Project Name: Los Medanos 36-23-30 State #703H

Date Received in Lab: Tue Sep-17-19 08:45 am Report Date: 20-SEP-19

Project Manager: Jessica Kramer

| | Lab Id: | 637051- | 001 | 637051-0 | 002 | 637051-0 | 003 | 637051- | 004 | |
|-----------------------|------------|-----------|----------|-----------|---------|-------------|---------|-----------|---------|--|
| Analysis Requested | Field Id: | SS01 | | SS02 | | SS03 | | SS04 | | |
| Analysis Requested | Depth: | 0.5- f | t | 0.5- ft | t | 0.5- ft | | 0.5- f | t | |
| | Matrix: | SOIL | <u>.</u> | SOIL | , | SOIL | | SOIL | | |
| | Sampled: | Sep-16-19 | 12:48 | Sep-16-19 | 12:49 | Sep-16-19 | 12:50 | Sep-16-19 | 12:51 | |
| BTEX by EPA 8021B | Extracted: | Sep-18-19 | 12:15 | Sep-18-19 | 12:15 | Sep-18-19 | 12:15 | Sep-18-19 | 12:15 | |
| SUB: T104704400-18-16 | Analyzed: | Sep-18-19 | 20:17 | Sep-18-19 | 20:37 | Sep-18-19 2 | 20:57 | Sep-18-19 | 21:17 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | |
| Benzene | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | |
| Toluene | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | |
| Ethylbenzene | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | <0.00199 | 0.00199 | |
| m,p-Xylenes | | < 0.00403 | 0.00403 | < 0.00401 | 0.00401 | < 0.00399 | 0.00399 | < 0.00398 | 0.00398 | |
| o-Xylene | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | |
| Total Xylenes | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | <0.00199 | 0.00199 | |
| Total BTEX | | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | |
| Chloride by EPA 300 | Extracted: | Sep-19-19 | 14:30 | Sep-19-19 | 14:30 | Sep-19-19 | 14:30 | Sep-19-19 | 14:30 | |
| SUB: T104704400-18-16 | Analyzed: | Sep-19-19 | 15:58 | Sep-19-19 | 16:04 | Sep-19-19 | 16:21 | Sep-19-19 | 16:27 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | |
| Chloride | | 217 | 5.02 | 54.3 | 4.98 | 21.8 | 4.96 | 20.7 | 4.99 | |
| PH By SW9045D | Extracted: | | | | | | | | | |
| SUB: T104704400-18-16 | Analyzed: | Sep-18-19 | 13:00 | Sep-18-19 | 13:00 | Sep-18-19 | 13:00 | Sep-18-19 | 13:00 | |
| | Units/RL: | Deg C | RL | Deg C | RL | Deg C | RL | Deg C | RL | |
| Temperature | | 22.5 + | | 22.8 + | | 22.6 + | | 22.6 + | | |
| PH By SW9045D | Extracted: | | | | | | | | | |
| SUB: T104704400-18-16 | Analyzed: | Sep-18-19 | 13:00 | Sep-18-19 | 13:00 | Sep-18-19 | 13:00 | Sep-18-19 | 13:00 | |
| | Units/RL: | SU | RL | SU | RL | SU | RL | SU | RL | |
| pH | · | 8.31 | | 8.39 | | 8.51 | | 8.47 | | |

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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fession kramer

Jessica Kramer Project Assistant



Project Id:012919093Contact:Dan MoirProject Location:Eddy County

Certificate of Analysis Summary 637051

LT Environmental, Inc., Arvada, CO

Project Name: Los Medanos 36-23-30 State #703H

Date Received in Lab: Tue Sep-17-19 08:45 am Report Date: 20-SEP-19

Project Manager: Jessica Kramer

| | Lab Id: | 637051-0 | 01 | 637051-0 | 02 | 637051-0 | 03 | 637051-0 | 04 | | |
|------------------------------------|------------|-------------|-----------------|-----------------|---------|------------------------------------|---------|------------------------------------|------|--|--|
| Analysis Requested | Field Id: | SS01 | | SS02 | | SS03 | | SS04 | | | |
| Analysis Kequesieu | Depth: | 0.5- ft | 0.5- ft | | 0.5- ft | | 0.5- ft | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | | |
| | Sampled: | Sep-16-19 1 | Sep-16-19 12:48 | | 2:49 | Sep-16-19 1 | 2:50 | Sep-16-19 1 | 2:51 | | |
| TPH by SW8015 Mod | Extracted: | Sep-17-19 1 | Sep-17-19 11:00 | | 1:00 | Sep-17-19 11:00 Sep-18-19 20:52 | | Sep-17-19 11:00 Sep-18-19 21:14 | | | |
| SUB: T104704400-18-16 | Analyzed: | Sep-18-19 2 | 20:10 | Sep-18-19 20:31 | | | | | | | |
| | Units/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 | <49.9 | 49.9 | <50.0 | 50.0 | | |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | | |
| Total GRO-DRO | | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | | |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 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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fession kenner

Jessica Kramer Project Assistant



Certificate of Analytical Results 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

| Sample Id: | SS01 | | Matrix: | Soil | Date Received:09.17.19 08.45 Sample Depth: 0.5 ft | | | | |
|-------------------|-----------------------|------------|------------|----------------------|--|-------------------|----------|-----|--|
| Lab Sample Id | d: 637051-001 | | Date Colle | cted: 09.16.19 12.48 | | Sample Depth: 0.5 | ft | | |
| Analytical Me | ethod: Chloride by EF | PA 300 | | | | Prep Method: E30 | 00P | | |
| Tech: | CHE | | | | % Moisture: | | | | |
| Analyst: | CHE | | Date Prep: | 09.19.19 14.30 | | Basis: We | t Weight | | |
| Seq Number: | 3102005 | | 1 | | | SUB: T104704400 | -18-16 | | |
| Parameter | | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil | |
| Chloride | | 16887-00-6 | 217 | 5.02 | mg/kg | 09.19.19 15.58 | | 1 | |
| - | ethod: PH By SW904 | 5D | | | | | | | |
| Tech: | | | | | | % Moisture: | | | |
| Analyst: | CHE | | | | | Basis: We | t Weight | | |
| Seq Number: | 3101854 | | | | | SUB: T104704400 | -18-16 | | |
| Parameter | | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil | |
| pH | | 12408-02-5 | 8.31 | | SU | 09.18.19 13.00 | | 1 | |
| Temperature | | TEMP | 22.5 | | Deg C | 09.18.19 13.00 | + | 1 | |
| Analytical Me | ethod: TPH by SW80 | 15 Mod | | | | Prep Method: SW | 8015P | | |
| Tech: | DVM | | | | | % Moisture: | | | |
| Analyst: | ARM | | Date Prep: | 09.17.19 11.00 | | Basis: We | t Weight | | |
| Seq Number: | 3101920 | | | | | SUB: T104704400 | -18-16 | | |
| Parameter | | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil | |
| Gasoline Range | Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 09.18.19 20.10 | U | 1 | |
| Diesel Range Or | ganics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 09.18.19 20.10 | U | 1 | |
| Motor Oil Range H | Iydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 09.18.19 20.10 | U | 1 | |
| m 1 0 0 0 F = - | | | | | - | | | | |

| Total GRO-DRO | PHC628 | <49.8 | 49.8 | | mg/kg | 09.18.19 20.10 | U | 1 |
|----------------|--------|------------|---------------|-------|--------|----------------|------|---|
| Total TPH | PHC635 | <49.8 | 49.8 | | mg/kg | 09.18.19 20.10 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111 05 2 | 122 | 0/ | 70 125 | 09.18.19 20.10 | | |
| 1-Chiorooctane | | 111-85-3 | 122 | % | 70-135 | 09.18.19 20.10 | | |



Certificate of Analytical Results 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

| Sample Id: SS01 | | Matrix: | Soil | Ι | Date Received:09.1 | 17.19 08.4 | 5 |
|----------------------------|-------------|------------|-------------------------|---------|--------------------|------------|-----|
| Lab Sample Id: 637051-001 | | Date Col | llected: 09.16.19 12.48 | S | Sample Depth: 0.5 | ft | |
| Analytical Method: BTEX by | y EPA 8021B | | | I | Prep Method: SW | 5030B | |
| Tech: KTL | | | | ģ | % Moisture: | | |
| Analyst: KTL | | Date Pre | p: 09.18.19 12.15 | Ι | Basis: Wet | t Weight | |
| Seq Number: 3101869 | | | - | 5 | SUB: T104704400 | -18-16 | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Benzene | 71-43-2 | < 0.00202 | 0.00202 | mg/kg | 09.18.19 20.17 | U | 1 |
| Toluene | 108-88-3 | < 0.00202 | 0.00202 | mg/kg | 09.18.19 20.17 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00202 | 0.00202 | mg/kg | 09.18.19 20.17 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00403 | 0.00403 | mg/kg | 09.18.19 20.17 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00202 | 0.00202 | mg/kg | 09.18.19 20.17 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00202 | 0.00202 | mg/kg | 09.18.19 20.17 | U | 1 |
| Total BTEX | | < 0.00202 | 0.00202 | mg/kg | 09.18.19 20.17 | U | 1 |
| Surrogate | | Cas Number | % Description | I imite | Analysis Data | Flag | |

| Surrogate | Cas Number | Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|----------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 09.18.19 20.17 | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 09.18.19 20.17 | |

1-Chlorooctane

o-Terphenyl



Certificate of Analytical Results 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

| Sample Id: SS02 Lab Sample Id: 637051-002 | | Matrix: Date Coll | Soil lected: 09.16.19 12.49 | | Date Received:09.2 Sample Depth: 0.5 | | 5 |
|---|------------|----------------------|--------------------------------|--------|---|----------|-----|
| Analytical Method: Chloride by | EPA 300 | | | | Prep Method: E30 | 00P | |
| Tech: CHE | | | | | % Moisture: | | |
| Analyst: CHE | | Date Prep | o: 09.19.19 14.30 | | Basis: We | t Weight | |
| Seq Number: 3102005 | | | | | SUB: T104704400 | - | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Chloride | 16887-00-6 | 54.3 | 4.98 | mg/kg | 09.19.19 16.04 | | 1 |
| Analytical Method: PH By SW9 | 045D | | | | | | |
| Tech: CHE | | | | | % Moisture: | | |
| Analyst: CHE | | | | | Basis: We | t Weight | |
| Seq Number: 3101854 | | | | | SUB: T104704400 | - | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| pH | 12408-02-5 | 8.39 | | SU | 09.18.19 13.00 | | 1 |
| Temperature | TEMP | 22.8 | | Deg C | 09.18.19 13.00 | + | 1 |
| Analytical Method: TPH by SW | 8015 Mod | | | | Prep Method: SW | 8015P | |
| Tech: DVM | | | | | % Moisture: | | |
| Analyst: ARM | | Date Prep | b: 09.17.19 11.00 | | Basis: We | t Weight | |
| Seq Number: 3101920 | | | | | SUB: T104704400 | -18-16 | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 09.18.19 20.31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 09.18.19 20.31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 09.18.19 20.31 | U | 1 |
| Total GRO-DRO | PHC628 | <50.0 | 50.0 | mg/kg | 09.18.19 20.31 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 09.18.19 20.31 | U | 1 |
| Surrogate | | Cas Number | % Recovery Units | Limits | Analysis Date | Flag | |
| | | | | | | | |

Page 9 of 21

%

%

135

129

70-135

70-135

09.18.19 20.31

09.18.19 20.31

111-85-3

84-15-1



Certificate of Analytical Results 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

| Sample Id: SS02 Lab Sample Id: 637051-002 | | Matrix: Date Colle | Soil cted: 09.16.19 12.49 | | Date Received:09.1 Sample Depth: 0.5 | | -5 | |
|--|-------------|-----------------------|------------------------------|-------|---|------|-----|--|
| Analytical Method:BTEX by ETech:KTLAnalyst:KTLSeq Number:3101869 | PA 8021B | Date Prep: | 09.18.19 12.15 | | Prep Method: SW5030B % Moisture: Basis: Wet Weight SUB: T104704400-18-16 | | | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil | |
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | mg/kg | 09.18.19 20.37 | U | 1 | |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | mg/kg | 09.18.19 20.37 | U | 1 | |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | mg/kg | 09.18.19 20.37 | U | 1 | |
| m,p-Xylenes | 179601-23-1 | < 0.00401 | 0.00401 | mg/kg | 09.18.19 20.37 | U | 1 | |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | mg/kg | 09.18.19 20.37 | U | 1 | |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | mg/kg | 09.18.19 20.37 | U | 1 | |
| Total BTEX | | < 0.00200 | 0.00200 | mg/kg | 09.18.19 20.37 | U | 1 | |
| | | | 0/0 | | | | | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|---------------|-------|--------|----------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 09.18.19 20.37 | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 09.18.19 20.37 | |



Certificate of Analytical Results 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

| Sample Id:SS03Lab Sample Id:637051 | -003 | Matrix: Date Colle | Soil cted: 09.16.19 12.50 | Date Received:09.17.19 08.45 Sample Depth: 0.5 ft | | | | |
|--|--|---|---|--|--|--|------------------------------|--|
| Analytical Method: Ch | nloride by EPA 300 | | | | Prep Method: E30 | 0P | | |
| Tech: CHE | | | | | % Moisture: | | | |
| Analyst: CHE | | Date Prep: | 09.19.19 14.30 | | Basis: Wet | t Weight | | |
| Seq Number: 3102005 | 5 | 1 | | | SUB: T104704400 | -18-16 | | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil | |
| Chloride | 16887-00-6 | 21.8 | 4.96 | mg/kg | 09.19.19 16.21 | | 1 | |
| Analytical Method: PH | 1 Bv SW9045D | | | | | | | |
| Tech: CHE | 129 5 (190 102 | | | | % Moisture: | | | |
| Analyst: CHE | | | | | | t Weight | | |
| Seq Number: 3101854 | 4 | | | | SUB: T104704400 | - | | |
| | | | | | | | | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil | |
| Parameter pH | Cas Number 12408-02-5 | Result 8.51 | RL | Units SU | Analysis Date 09.18.19 13.00 | Flag | Dil | |
| | | | RL | | - | Flag + | | |
| pH Temperature Analytical Method: TF | 12408-02-5 TEMP | 8.51 | RL | SU | 09.18.19 13.00 09.18.19 13.00 Prep Method: SW | + | 1 | |
| pH Temperature Analytical Method: TF Tech: DVM | 12408-02-5 TEMP | 8.51 22.6 | | SU | 09.18.19 13.00 09.18.19 13.00 Prep Method: SW % Moisture: | + 8015P | 1 | |
| pH Temperature Analytical Method: TF Tech: DVM Analyst: ARM | 12408-02-5 TEMP PH by SW8015 Mod | 8.51 | RL 09.17.19 11.00 | SU | 09.18.19 13.00 09.18.19 13.00 Prep Method: SW % Moisture: Basis: Wet | + 8015P t Weight | 1 | |
| pH Temperature Analytical Method: TF Tech: DVM | 12408-02-5 TEMP PH by SW8015 Mod | 8.51 22.6 | | SU | 09.18.19 13.00 09.18.19 13.00 Prep Method: SW % Moisture: | + 8015P t Weight | 1 | |
| pH Temperature Analytical Method: TF Tech: DVM Analyst: ARM | 12408-02-5 TEMP PH by SW8015 Mod | 8.51 22.6 | | SU | 09.18.19 13.00 09.18.19 13.00 Prep Method: SW % Moisture: Basis: Wet | + 8015P t Weight | 1 | |
| pH Temperature Analytical Method: TF Tech: DVM Analyst: ARM Seq Number: 3101920 | 12408-02-5 TEMP PH by SW8015 Mod) Cas Number | 8.51 22.6 Date Prep: | 09.17.19 11.00 | SU Deg C | 09.18.19 13.00 09.18.19 13.00 9.18.19 13.00 Prep Method: SW % Moisture: Basis: Wet SUB: T104704400 | + 8015P t Weight -18-16 | 1 | |
| pH Temperature Analytical Method: TF Tech: DVM Analyst: ARM Seq Number: 3101920 Parameter Gasoline Range Hydrocarbo Diesel Range Organics (DR | 12408-02-5 TEMP PH by SW8015 Mod O Cas Number Ons (GRO) PHC610 RO) C10C28DRO | 8.51 22.6 Date Prep: Result | 09.17.19 11.00 RL | SU Deg C Units | 09.18.19 13.00 09.18.19 13.00 9.18.19 13.00 Prep Method: SW % Moisture: Basis: Wet SUB: T104704400 Analysis Date | + 8015P t Weight -18-16 Flag | l 1 Dil | |
| pH Temperature Analytical Method: TF Tech: DVM Analyst: ARM Seq Number: 3101920 Parameter Gasoline Range Hydrocarbo Diesel Range Organics (DR Motor Oil Range Hydrocarbos | PH by SW8015 Mod PH by SW8015 Mod Cas Number Cas Number Cas Oumber Cas Oumber Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas Cas | 8.51 22.6 Date Prep: Result <49.9 <49.9 <49.9 | 09.17.19 11.00 RL 49.9 49.9 49.9 49.9 | SU Deg C Units mg/kg | 09.18.19 13.00 09.18.19 13.00 09.18.19 13.00 Prep Method: SW % Moisture: Basis: Wet SUB: T104704400 Analysis Date 09.18.19 20.52 09.18.19 20.52 09.18.19 20.52 | + 8015P Weight -18-16 Flag U U U U | 1 1 Dil 1 1 1 | |
| pH Temperature Analytical Method: TF Tech: DVM Analyst: ARM Seq Number: 3101920 Parameter Gasoline Range Hydrocarbo Diesel Range Organics (DR | 12408-02-5 TEMP PH by SW8015 Mod O Cas Number Ons (GRO) PHC610 RO) C10C28DRO | 8.51 22.6 Date Prep: Result <49.9 <49.9 | 09.17.19 11.00 RL 49.9 49.9 | SU Deg C Units mg/kg mg/kg | 09.18.19 13.00 09.18.19 13.00 09.18.19 13.00 Prep Method: SW % Moisture: Basis: Wet SUB: T104704400 Analysis Date 09.18.19 20.52 09.18.19 20.52 | + 8015P Weight -18-16 Flag U U U | 1 1 Dil 1 | |

% Surrogate Cas Number Units Limits **Analysis Date** Recovery 111-85-3 70-135 09.18.19 20.52 1-Chlorooctane 123 % o-Terphenyl 84-15-1 127 % 70-135 09.18.19 20.52

Flag



Certificate of Analytical Results 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

| Sample Id: SS03 Lab Sample Id: 637051-00 | Matrix: Date Collec | Soil ted: 09.16.19 12.50 | | Date Received:09.17.19 08.45 Sample Depth: 0.5 ft | | | |
|--|------------------------|-----------------------------|--------------------|--|--|----------|-------------|
| Analytical Method:BTEX by EPA 8021BTech:KTLAnalyst:KTLSeq Number:3101869 | | Date Prep: | 09.18.19 12.15 |] | Prep Method: SW % Moisture: Basis: We SUB: T104704400 | t Weight | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 09.18.19 20.57 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 (| 0.00200 | mg/kg | 09.18.19 20.57 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 (| 0.00200 | mg/kg | 09.18.19 20.57 | U | 1 |
| Enificenzene | 100 11 1 | | | | 0,11011, 2010, | U | |
| m,p-Xylenes | 179601-23-1 | |).00399 | mg/kg | 09.18.19 20.57 | U | 1 |
| • | | <0.00399 |).00399).00200 | | | | 1 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 (<0.00200 (| | mg/kg | 09.18.19 20.57 | U | 1 1 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|---------------|-------|--------|----------------|------|
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 09.18.19 20.57 | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 09.18.19 20.57 | |



Certificate of Analytical Results 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

| Prep Method: E300P Tech: CHE Sasis: Wet Weight Analysic: CHE Date Prep: 09.19.19 14.30 Basis: Wet Weight Seq Number: 3102005 Cas Number Result RL Units Analysis Date Flag Dit Analytical Method: PH By SW9045D Subs: Subs: Wet Weight Subs: Vet Weight Analytical Method: PH By SW9045D Subs: Wet Weight Subs: No Analytical Method: PH By SW9045D Subs: Wet Weight Subs: No Analytical Method: PH By SW9045D Keult RL Units Analysis Date Flag Dit Analytical Method: PH By SW9045D Subs: Subs: Subs: No | Sample Id: SS04 Lab Sample Id: 637051-004 | | Matrix: Date Collec | Soil cted: 09.16.19 12.51 | | 5 | | |
|--|---|------------------------------------|-------------------------|------------------------------|-------------------------|--|-------------|-------------|
| Analyst: CHE Seq Number: Date Prep: $09,19,19,14.30$ Basis: Wet Weight SUB: Tid4704400-18-16 Parameter Cas Number Result RL Units Analysis Date Fag Dit Chloride 16887-00-6 20.7 4.99 mg/kg $09,19,19,16.27$ 1 Analytical Method: PH By SW9045D Subscription Basis: Wet Weight Tech: CHE Seq Number: 301854 Subscription Basis: Wet Weight Parameter CHE Seq Number: Subscription Result RL Units Analysis Date Fag Dit Parameter Cas Number Result RL Units Analysis Date Fag Dit PH 12408-02-5 8.47 SU 09.18.19.13.00 1 Tech: DVM Subscription % Moisture: % Moisture: % Moisture: Analystical Method: TPH by SW8015 Juster TEMP 22.6 SUB SUB SUB: TI04704400-18-16 Subscription TEMP 22.6 8.47 SU Subscr | Analytical Method: Chlorid | e by EPA 300 | | | | Prep Method: E30 |)0P | |
| Seq Number: 3102005 SUB: TI04704400-18-0 Parameter Cas Number Result RL Units Analysis Date Flag Dil Chloride 16887-00-6 20.7 4.99 mg/kg 09.19.19.16.27 1 Analytical Method: PH By SW9045D | Tech: CHE | | | | | % Moisture: | | |
| ParameterCas NumberResultRLUnitsAnalysis DateFlagDilChloride16887-00-620.74.99mg/kg09.19.19 16.271Analytical Method:PH By SW9045D | Analyst: CHE | | Date Prep: | 09.19.19 14.30 | | Basis: We | t Weight | |
| Chloride 16887-00-6 20.7 4.99 mg/kg 09.19.19 16.27 1 Analytical Method: PH By SW9045D % Moisture: 1 Analytical Method: PH By SW9045D % Moisture: Basis: Wet Weight Seq Number: 3101854 SUB: T104704400-18-16 Plage | Seq Number: 3102005 | | - | | | SUB: T104704400 | -18-16 | |
| Analytical Method: PH By SW9045D Tech: CHE Analysi: CHE Seq Number: 3101854 Parameter Cas Number Result RL Units Analysis Date Flag Dil pH 12408-02-5 8.47 SU 09.18.19 13.00 1 Temperature TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod | Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Tech: CHE % Moisture: Analyst: CHE Basis: Wet Weight SuB: T104704400-18-16 SUB: T104704400-18-16 Parameter Cas Number Result RL Units Analysis Date Flag Dil pH 12408-02-5 8.47 SU 09.18.19 13.00 1 Temperature TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod Date Prep: 09.17.19 09.17.19 88sis: Wet Weight Analyst: ARM Date Prep: 09.17.19 10 Basis: Wet Weight Seq Number: 3101920 Flag Dil Date Prep: 09.17.19 10.10 Basis: Wet Weight Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Diseel Range Organics (DRO) C10C28DRO <50.0 50.0 mg/kg 09.18.19 14 U 1 Total GRO-DRO PHC628 <50.0 50.0 </td <td>Chloride</td> <td>16887-00-6</td> <td>20.7</td> <td>4.99</td> <td>mg/kg</td> <td>09.19.19 16.27</td> <td></td> <td>1</td> | Chloride | 16887-00-6 | 20.7 | 4.99 | mg/kg | 09.19.19 16.27 | | 1 |
| Tech: CHE % Moisture: Analyst: CHE Basis: Wet Weight SuB: T104704400-18-16 SUB: T104704400-18-16 Parameter Cas Number Result RL Units Analysis Date Flag Dil pH 12408-02-5 8.47 SU 09.18.19 13.00 1 Temperature TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod Date Prep: 09.17.19 09.17.19 88sis: Wet Weight Analyst: ARM Date Prep: 09.17.19 10 Basis: Wet Weight Seq Number: 3101920 Flag Dil Date Prep: 09.17.19 10.10 Basis: Wet Weight Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Diseel Range Organics (DRO) C10C28DRO <50.0 50.0 mg/kg 09.18.19 14 U 1 Total GRO-DRO PHC628 <50.0 50.0 </td <td>Analytical Matheds DILDs</td> <td>SW0045D</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | Analytical Matheds DILDs | SW0045D | | | | | | |
| Analyst: CHE Basis: Weight Seq Number: 3101854 Cas Number Result RL Units Analysis Date Flag Dit PH 12408-02-5 8.47 SU 09.18.19 13.00 1 Temperature TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod TEMP Date Prep: 09.17.19 09.17.19 Basis: Weight SWB: 15P Seq Number: 3101920 Date Prep: 09.17.19 100 Basis: Weight SUB: T10470440-18-16 Parameter Cas Number Result RL Units Analysis Date Flag Dit Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Diseel Range Organics (DRO) PHC628 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Diseel Range Organ | | 3 W 9043D | | | | % Moisture: | | |
| Seq Number: 3101854 SUB: T104704400-18-16 Parameter Cas Number Result RL Units Analysis Date Flag Dil pH 12408-02-5 8.47 SU 09.18.19 13.00 1 Temperature TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod Prep Prep Method: SW8015P % Moisture: Analytic: DVM Analysi: ARM Date Prep: 09.17.19 11.00 Basis: Wet weight Seq Number: 3101920 SUB: T104704400-18-16 SUB: T104704400-18-16 Parameter Cas Number Result RL Units Analysis Date Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 | | | | | | | t Waight | |
| Parameter Cas Number Result RL Units Analysis Date Flag Dil pH 12408-02-5 8.47 SU 09.18.19 13.00 1 Temperature TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P % Moisture: Analyst: ARM Date Prep: 09.17.19 11.00 Basis: Wet Weight Seq Number: 3101920 Exesuit RL Units Analysis Date Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 | 5 | | | | | | - | |
| PH 12408-02-5 8.47 SU 09.18.19 13.00 1 Temperature TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P % Moisture: % Moisture | Seq Number. 5101054 | | | | | SOB. 1104704400 | -18-10 | |
| Temperature TEMP 22.6 Deg C 09.18.19 13.00 + 1 Analytical Method: TPH by SW8015 Mod Prep Method: SW8015 P Tech: DVM % Moisture: Basis: Wet Weight Analyst: ARM Date Prep: 09.17.19 11.00 Basis: Wet Weight Seq Number: 3101920 RE Units Analysis Date Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 | Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Prep Method: TPH by SW8015 Mod Prep Method: SW8015P Tech: DVM % Moisture: Analyst: ARM Date Prep: $09.17.19\ 11.00$ Basis: We Weight Seq Number: 3101920 Date Prep: $09.17.19\ 11.00$ Basis: We Weight Frameter Cas Number Result RL Units Analysis Date Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 50.0 mg/kg $09.18.19\ 21.14$ U 1 Diesel Range Organics (DRO) C10C28DRO <50.0 50.0 mg/kg $09.18.19\ 21.14$ U 1 Motor Oil Range Hydrocarbons (MRO) PHC62835 <50.0 50.0 mg/kg $09.18.19\ 21.14$ U 1 Total GRO-DRO PHC628 <50.0 50.0 mg/kg $09.18.19\ 21.14$ U 1 Total TPH PHC635 <50.0 50.0 mg/kg $09.18.19\ 21.14$ U 1 | pH | 12408-02-5 | 8.47 | | SU | 09.18.19 13.00 | | 1 |
| Tech: Analyst:DVM M <t< td=""><td>Temperature</td><td>TEMP</td><td>22.6</td><td></td><td>Deg C</td><td>09.18.19 13.00</td><td>+</td><td>1</td></t<> | Temperature | TEMP | 22.6 | | Deg C | 09.18.19 13.00 | + | 1 |
| Tech: Analyst:DVM M <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | |
| Analyst: ARM Date Prep: 09.17.19 11.00 Basis: Wet Weight SUB: T104704400-18-16 Seq Number: 3101920 Cas Number Result RL Units Analysis Date Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Disel Range Organics (DRO) C10C28DRO <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Motor Oil Range Hydrocarbons (MRO) PHC62835 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Total GRO-DRO PHC635 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Total TPH PHC635 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 | Analytical Method: TPH by | v SW8015 Mod | | | | Prep Method: SW | 8015P | |
| Seq Number: 3101920 Cas Number Result RL Units Analysis Date Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 | Tech: DVM | | | | | % Moisture: | | |
| Parameter Cas Number Result RL Units Analysis Date Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 | Analyst: ARM | | Date Prep: | 09.17.19 11.00 | | Basis: We | t Weight | |
| Gasoline Range Hydrocarbons (GRO) PHC610 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Diesel Range Organics (DRO) C10C28DRO <50.0 | Seq Number: 3101920 | | | | | SUB: T104704400 | -18-16 | |
| Diesel Range Organics (DRO) C10C28DRO <50.0 mg/kg 09.18.19 21.14 U 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 <50.0 | De server e f e se | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Motor Oil Range Hydrocarbons (MRO) PHCG2835 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Total GRO-DRO PHC628 <50.0 | Parameter | | | | | | | |
| Total GRO-DRO PHC628 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 Total TPH PHC635 <50.0 | | GRO) PHC610 | <50.0 | 50.0 | mg/kg | 09.18.19 21.14 | U | 1 |
| Total TPH PHC635 <50.0 50.0 mg/kg 09.18.19 21.14 U 1 | Gasoline Range Hydrocarbons (G | | | | | | | - |
| | Gasoline Range Hydrocarbons (C Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRC | C10C28DRO D) PHCG2835 | <50.0 <50.0 | 50.0 50.0 | mg/kg mg/kg | 09.18.19 21.14 09.18.19 21.14 | U U | 1 1 |
| 0/2 | Gasoline Range Hydrocarbons (G Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRC Total GRO-DRO | C10C28DRO D) PHCG2835 PHC628 | <50.0 <50.0 <50.0 | 50.0 50.0 50.0 | mg/kg mg/kg mg/kg | 09.18.19 21.14 09.18.19 21.14 09.18.19 21.14 | U U U | 1 1 1 |

% Surrogate Cas Number Units Limits **Analysis Date** Recovery 111-85-3 % 70-135 09.18.19 21.14 1-Chlorooctane 123 o-Terphenyl 84-15-1 126 % 70-135 09.18.19 21.14

Flag



1,4-Difluorobenzene

Certificate of Analytical Results 637051

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State #703H

99

%

70-130

09.18.19 21.17

| Sample Id:SS04Lab Sample Id:637051-004 | | | Matrix: Soil Date Collected: 09.16.19 12.51 | | | Date Received:09.17.19 08.45 Sample Depth: 0.5 ft | | | | |
|--|---|--|--|--|---|---|--|--|--|--|
| Analytical Method:BTEX by EPA 8021BTech:KTLAnalyst:KTLSeq Number:3101869 | | p: 09.1 | 8.19 12.15 | 9 I | % Moisture: Basis: We | t Weight | | | | |
| Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil | | | |
| 71-43-2 | < 0.00199 | 0.00199 | | mg/kg | 09.18.19 21.17 | U | 1 | | | |
| 108-88-3 | < 0.00199 | 0.00199 | | mg/kg | 09.18.19 21.17 | U | 1 | | | |
| 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 09.18.19 21.17 | U | 1 | | | |
| 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 09.18.19 21.17 | U | 1 | | | |
| 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 09.18.19 21.17 | U | 1 | | | |
| 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 09.18.19 21.17 | U | 1 | | | |
| | < 0.00199 | 0.00199 | | mg/kg | 09.18.19 21.17 | U | 1 | | | |
| | Cas Number 460-00-4 | % Recovery 105 | Units | Limits 70-130 | Analysis Date | Flag | | | | |
| | Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7 | Date Col 21B Date Pre Cas Number Result 71-43-2 <0.00199 | Date Collected: 09.1 21B Date Prep: 09.1 Cas Number Result RL 71-43-2 <0.00199 | Date Collected: 09.16.19 12.51 21B Date Prep: 09.18.19 12.15 Cas Number Result RL 71-43-2 <0.00199 | Date Collected: 09.16.19 12.51 5 21B Date Prep: 09.18.19 12.15 9 Date Prep: 09.18.19 12.15 9 21B Example Result RL Units 71-43-2 <0.00199 | Date Collected: 09.16.19 12.51 Sample Depth: 0.5 21B Prep Method: SW Date Prep: 09.18.19 12.15 Basis: Wethod: SW SUB: T104704400 Cas Number RL Units Analysis Date 71-43-2 <0.00199 | Date Collected: 09.16.19 12.51 Sample Depth: 0.5 ft 21B Prep Method: SW5030B % Moisture: Date Prep: $99.18.19 12.15$ Basis: Wet Weight SUB: T104704400-18-16 Cas Number Result RL Units Analysis Date Flag 71-43-2 <0.00199 | | | |

540-36-3



Flagging Criteria

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

| SMP Clie | ent Sample | BLK | Method Blank | |
|----------|---------------------------------------|-----------|-----------------------------|---------------------------------|
| BKS/LCS | Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labor | ratory Control Sample Duplicate |
| MD/SD | Method Duplicate/Sample Duplicate | MS | Matrix Spike | MSD: Matrix Spike Duplicate |

+ NELAC certification not offered for this compound.

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



Los Medanos 36-23-30 State #703H

| Analytical Method: | Chloride by EPA 30 | 00 | | | | | | Pr | ep Metho | od: E300 | OP | |
|--------------------|--------------------|-----------------|---------------|-------------|----------------|--------------|--------|--------|----------|----------|------------------|------|
| Seq Number: | 3102005 | | | Matrix: | Solid | | | | Date Pre | ep: 09.1 | 9.19 | |
| MB Sample Id: | 7686542-1-BLK | | LCS San | nple Id: | 7686542- | 1-BKS | | LCSI | O Sample | d: 7686 | 5542-1-BSD | |
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD] | RPD Limi | it Units | Analysis Date | Flag |
| Chloride | < 0.858 | 250 | 236 | 94 | 236 | 94 | 90-110 | 0 | 20 | mg/kg | 09.19.19 14:34 | |

| Analytical Method: | Chloride by EPA 3 | 00 | | | | | | Pre | p Metho | d: E30 | 0P | |
|--------------------|-------------------|--------|--------|----------|-----------|------|--------|--------|----------|----------|------------|------|
| Seq Number: | 3102005 | |] | Matrix: | Soil | | | | Date Pre | p: 09.1 | 9.19 | |
| Parent Sample Id: | 637051-002 | | MS San | nple Id: | 637051-00 | 02 S | | MSD | Sample | Id: 6370 | 051-002 SD | |
| Parameter | Parent | Spike | MS | MS | MSD | MSD | Limits | %RPD R | PD Limi | t Unite | Analysis | |
| | Result | Amount | Result | %Rec | Result | %Rec | Linits | | | t Omts | Date | Flag |

| Analytical Method: | Chloride by EPA 30 | 00 | | | | | | P | ep Metho | od: E30 | OP | |
|--------------------|--------------------|-----------------|--------------|------------|---------------|-------------|--------|------|----------|----------|------------------|------|
| Seq Number: | 3102005 | | | Matrix: | Soil | | | | Date Pre | ep: 09.1 | 9.19 | |
| Parent Sample Id: | 637358-061 | | MS Sar | nple Id: | 637358-06 | 51 S | | MS | D Sample | Id: 6373 | 358-061 SD | |
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limi | t Units | Analysis Date | Flag |
| Chloride | 2.21 | 251 | 249 | 98 | 251 | 99 | 90-110 | 1 | 20 | mg/kg | 09.19.19 14:50 | |

| Analytical Method: Seq Number: Parent Sample Id: | PH By SW9045D 3101854 637051-001 | Matrix: MD Sample Id: | | | | | | |
|--|---|-------------------------------|--------------|------|---------|-----------|------------------|------|
| Parameter | Parent Result | MD Sample Id. MD Result | 037031-001 D | %RPD | RPD Lin | nit Units | Analysis Date | Flag |
| pН | 8.31 | 8.31 | | 0 | 20 | SU | 09.18.19 13:00 | |

| Analytical Method: Seq Number: | TPH by S 3101920 | W8015 M | od | | Matrix: | Solid | | |] | Prep Methoo Date Prep | | 8015P 7.19 | |
|-----------------------------------|----------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------------------|---------|------------------|------|
| MB Sample Id: | 7686313-1 | -BLK | | LCS San | nple Id: | 7686313- | 1-BKS | | LC | SD Sample | Id: 768 | 6313-1-BSD | |
| Parameter | | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPI |) RPD Limit | Units | Analysis Date | Flag |
| Gasoline Range Hydrocarb | ons (GRO) | <15.0 | 1000 | 1170 | 117 | 1140 | 114 | 70-135 | 3 | 20 | mg/kg | 09.18.19 13:01 | |
| Diesel Range Organics | (DRO) | <15.0 | 1000 | 1130 | 113 | 1100 | 110 | 70-135 | 3 | 20 | mg/kg | 09.18.19 13:01 | |
| Surrogate | | MB %Rec | MB Flag | | CS Rec | LCS Flag | LCSI %Re | | | Limits | Units | Analysis Date | |
| 1-Chlorooctane | | 126 | | 1 | 21 | | 120 | | , | 70-135 | % | 09.18.19 13:01 | |
| o-Terphenyl | | 130 | | 1 | 25 | | 124 | | | 70-135 | % | 09.18.19 13:01 | |

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

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

Final 1.000



Los Medanos 36-23-30 State #703H

| Analytical Method: Seq Number: | TPH by S 3101920 | W8015 M | od | | Matrix: | | | | D | Method ate Prep | : 09.1 | | |
|-----------------------------------|----------------------------|------------------|-----------------|--------------|------------|---------------|-------------|--------|---------|--------------------|---------|------------------|------|
| Parent Sample Id: | 636983-00 | 1 | | MS Sar | nple Id: | 636983-00 | 01 S | | MSD S | Sample I | d: 6369 | 983-001 SD | |
| Parameter | | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD RP | D Limit | Units | Analysis Date | Flag |
| Gasoline Range Hydrocarbor | ns (GRO) | <14.9 | 996 | 1010 | 101 | 1050 | 105 | 70-135 | 4 | 20 | mg/kg | 09.18.19 14:05 | |
| Diesel Range Organics (I | ORO) | <14.9 | 996 | 987 | 99 | 1050 | 105 | 70-135 | 6 | 20 | mg/kg | 09.18.19 14:05 | |
| Surrogate | | | | | IS Rec | MS Flag | MSD %Rec | | | ts | Units | Analysis Date | |
| 1-Chlorooctane | | | | 1 | 23 | | 127 | | 70-13 | 35 | % | 09.18.19 14:05 | |
| o-Terphenyl | | | | 1 | 18 | | 129 | | 70-13 | 35 | % | 09.18.19 14:05 | |

| Analytical Method: Seq Number: MB Sample Id: | BTEX by EPA 802 3101869 7686420-1-BLK | 1B | LCS Sar | Matrix: nple Id: | Solid 7686420- | 1-BKS | | | Prep Metho Date Pre SD Sample | p: 09.1 | 5030B 8.19 5420-1-BSD | |
|--|--|-----------------|---------------|---------------------|-------------------|--------------|--------|------|-------------------------------------|---------|-----------------------------|------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPI |) RPD Limi | t Units | Analysis Date | Flag |
| Benzene | < 0.00200 | 0.100 | 0.0991 | 99 | 0.106 | 106 | 70-130 | 7 | 35 | mg/kg | 09.18.19 18:17 | |
| Toluene | < 0.00200 | 0.100 | 0.0969 | 97 | 0.103 | 103 | 70-130 | 6 | 35 | mg/kg | 09.18.19 18:17 | |
| Ethylbenzene | < 0.00200 | 0.100 | 0.102 | 102 | 0.108 | 108 | 70-130 | 6 | 35 | mg/kg | 09.18.19 18:17 | |
| m,p-Xylenes | < 0.00400 | 0.200 | 0.198 | 99 | 0.209 | 105 | 70-130 | 5 | 35 | mg/kg | 09.18.19 18:17 | |
| o-Xylene | < 0.00200 | 0.100 | 0.102 | 102 | 0.107 | 107 | 70-130 | 5 | 35 | mg/kg | 09.18.19 18:17 | |
| Surrogate | MB %Rec | MB Flag | | | LCS Flag | LCSI %Re | | | Limits | Units | Analysis Date | |
| 1,4-Difluorobenzene | 98 | | Ģ | 98 | | 99 | | , | 70-130 | % | 09.18.19 18:17 | |
| 4-Bromofluorobenzene | 92 | | 1 | 05 | | 105 | | | 70-130 | % | 09.18.19 18:17 | |

| Analytical Method: Seq Number: Parent Sample Id: | BTEX by EPA 802 3101869 637051-001 | 1B | MS San | Matrix: nple Id: | | 01 S | | | Prep Metho Date Pro SD Sample | ep: 09.1 | 5030B 8.19 051-001 SD | |
|---|---|-----------------|--------------|---------------------|---------------|-------------|--------|------|-------------------------------------|----------|-----------------------------|------|
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limi | t Units | Analysis Date | Flag |
| Benzene | < 0.00202 | 0.101 | 0.0741 | 73 | 0.0914 | 92 | 70-130 | 21 | 35 | mg/kg | 09.18.19 18:57 | |
| Toluene | < 0.00202 | 0.101 | 0.0726 | 72 | 0.0893 | 90 | 70-130 | 21 | 35 | mg/kg | 09.18.19 18:57 | |
| Ethylbenzene | < 0.00202 | 0.101 | 0.0744 | 74 | 0.0941 | 95 | 70-130 | 23 | 35 | mg/kg | 09.18.19 18:57 | |
| m,p-Xylenes | < 0.00403 | 0.202 | 0.144 | 71 | 0.183 | 92 | 70-130 | 24 | 35 | mg/kg | 09.18.19 18:57 | |
| o-Xylene | < 0.00202 | 0.101 | 0.0736 | 73 | 0.0955 | 96 | 70-130 | 26 | 35 | mg/kg | 09.18.19 18:57 | |
| Surrogate | | | | IS Rec | MS Flag | MSD %Ree | | - | Limits | Units | Analysis Date | |
| 1,4-Difluorobenzene | | | 1 | 00 | | 101 | | 7 | 70-130 | % | 09.18.19 18:57 | |
| 4-Bromofluorobenzene | | | 1 | 07 | | 111 | | 7 | 70-130 | % | 09.18.19 18:57 | |

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

Final 1.000

| W/ WW/ | 11/11 | Relinquished by: (Signature) | of service. Xenco will be liable only for the cost of samples and snall not assume any responsionary to any concourse of concourse of the set terms 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 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 | 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 be a subcontractor of the client if such losses are due to circumstances beyond the control to control to be a subcontractor of the client if such losses are due to circumstances beyond the control to control to be a subcontractor of the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the control to the client if such losses are due to circumstances beyond the client if such losses are due to circumstances beyond the client if such losses are due to circumstances beyond the client if such losses are due to circumstances beyond the client if such losses are due to circumstances beyond the client if such losses are due to circumstances beyond the client if such losses are due to circumstances beyond the client if such losses are due to circumstances beyond the client is a such losses are due to circu | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed | | | | SS04 | SS03 | SS02 | SS01 | Sample Identification | Sample Cusiony Seals. | | | Temperature ("C): | | SAMPLE RECEIPT | Sampler's Name: | P.O. Number: | Ä | Name: | | e ZIP: | | | Project Manager: Dan Moir | LABURA | XENC | |
|--------|---------|------------------------------|---|--|--|--|---|------------------|-----------|-----------|-----------|-----------|-----------------------|-----------------------|----------------------------|------------------------------------|-------------------|------|----------------|-----------------|--------------|-----------|---------------------------------|---------------------------|--------------------|---------------------|------------------|---------------------------|---|--|----------------|
| | 5 | ature) | y for the cost of samp 5.00 will be applied to | t and relinquishment o | 200.8 / 6020: Metal(s) to be an | | | | S | s | S | S | n Matrix | | 1 | 5 | No No | 602 | Temp Blank: | William Mather | Eddy County | Q12919093 | Los Medanos 36-23-30 State#703H | 36-3849 | Midland, Tx 79705 | 3300 North A Street | nmental, Inc., | bir | | | |
| | Col | Received by: | each project and | f samples constit | alyzed T | | | | 9/16/2019 | 9/16/2019 | 9/16/2019 | 9/16/2019 | Date Sampled | 3 | Total C | Correct | -) | | Yes No | ther | nty | G | 30 State#703I | - | | | Permian office | | Hobbs, N | | |
| C | 201 | y: (Signature) | a charge of \$5 f | utes a valid pure | 8RCRA 13PPM TCLP / SPLP 60 | | | | 12:51 | 12:50 | 12:49 | 12:48 | Sampled | 1 | Total Containers: | Correction Factor: | - 81 K- | | Wet Ice: 7 | Due Date: | Rush: | | | Email: wr | Ci | Ac | | Bi | IM (575-392-75 | Houston,TX Midland,T | |
| | | e) | for each sample | chase order from | RCRA 13PPM Texas 11 A | | | | 0.5 | 0.5 | 0.5 | 0.5 | Depth | - | | | 507 | | Teg No | te: | | R | Turn Around | Email: wmather@ltenv.com. | City, State ZIP: | Address: | Company Name: | Bill to: (if different) | Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) | Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-333 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 | |
| | 9/17/19 | | submitter | n client co ny losses | 1 AI S | | | | - | | - | | Num | | | | itair | ners | • | | | | | r.com, d | F | + | _ | Ky | Z (480-3 | 10 Dallas | |
| | | Date/Time | d to Xenc | or expens | l Sb As Ba Be Sb As Ba Be | | + | | × | × | × | × | TPH BTE | | | | 21) | - | - | + | | | | dmoir@ltenv.com | | | XTO Energy | Kyle Littrell | 55-0900) | ,TX (214 aso,TX (| |
| | 08:45 | ne | o, but not | Xenco, it ses incurr | Ba Be 3a Be | | - | $\left \right $ | × | - | + | | | | | | 50 | | | + | | | | env.com | | 2 | ΥĘ | - | Atlanta, |) 902-030 915)585- | |
| 4 | × N | R | analyzed | ed by the | B Cd Ca Cd Cr Co | | | | × | × | × | × | pH | | | | | | | | | | | | | | | | GA (770- | 00 San / 3443 Lu | |
| | | elinquis | . These te | s and sub client if s | | | | | | | | | | | | | | | | | | | AN | | | | | | 449-8800 | htonio,T. | and the second |
| | | shed by | rms will b | uch losse | Cr Co C Cu Pb N | | | | _ | | | - | | _ | _ | _ | _ | | | _ | | | ANALYSIS | | | | | | 0) Tamp | X (210) 5 ((806)79 | |
| | | Relinquished by: (Signature) | will be enforced unless previously negotiated. | ractors. It assigns standard terms and conditions losses are due to circumstances beyond the control | Cr Co Cu Fe Pb Mg Mn Mo I Cu Pb Mn Mo Ni Se Ag TI U | | | | | | | | | | | | | | | | | | SIS REQUEST | | | | | | a,FL (813-62 | 10) 509-3334 6)794-1296 | |
| | | re) | nless prev | s standard circumsta | Mg Mn Mo Ni Se Ag TI U | | | | | | | | | | | | | | | _ | | _ | - H | | Reputitig:cever ii | Deportin | Program: UST/PST | | 20-2000) | | |
| | | R | iously neg | terms an nces beyo | TIU | | + | | + | + | + | + | - | | | | - | | | + | | | - | Dies. EL | y.Level | State Of Fluger. | of Prois | | | | |
| | | Received by: (Signature) | otiated. | d condition nd the con | i K Se | | | | | | | | | | | | | | | | | | | | _ | 5 | | | WWW | | |
| | | by: (S | | ns trol | 6 | | | | | | | | | | | | | | | | | | | | | | | Work Order Comments | www.xenco.com | | |
| | | ignatur | | | SiO2 Na 1631 | | | | | | | | | | | | | | | | | | | | ADaPT | | rowntie | der Co | com | | |
| | | e) | | | 1 / 245. | | | | | | | | Ca | 0 | lab, | TAT star | | | | | | | W | | C | | | mment | raye_ | | |
| | | | | | Sr 11 Sn U V 1245.117470 | | | | | Disc | Disc | Dis | Disc | mple C | if receive | ts the da | | | | | | | OTK OTO | | | | | ' | | | |
| | | Date/Time | | | Na Sr H Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg | | | | | Discrete | Discrete | Discrete | Discrete | Cample Comments | lab, if received by 4:30pm | TAT starts the day recevied by the | | | | | | | WORK OTHER MOLES | Notos | | ILBAGI IN | - Ibertatio | norfund | | 2 | ALC: NO. |

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Page 18 of 21

40 of 75





Inter-Office Shipment

Page 1 of 1

IOS Number 48122

Date/Time: 09/17/19 11:12 Lab# From: **Carlsbad** Lab# To: **Midland** Created by: Elizabeth Mcclellan Delivery Priority:

Air Bill No.: 776265482604

Please send report to: Jessica Kramer

Address: 1089 N Canal Street

E-Mail: jessica.kramer@xenco.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|------------|--------|------------------|-------------------|--------------|-------------------------|----------|----------|-----|----------------------|------|
| 637051-001 | S | SS01 | 09/16/19 12:48 | SW8021B | BTEX by EPA 8021B | 09/23/19 | 09/30/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 637051-001 | S | SS01 | 09/16/19 12:48 | SW9045C | Soil pH by SW-846 9045C | 09/23/19 | 10/14/19 | JKR | | |
| 637051-001 | S | SS01 | 09/16/19 12:48 | SW8015MOD_NM | TPH by SW8015 Mod | 09/23/19 | 09/30/19 | JKR | GRO-DRO PHCC10C28 PH | |
| 637051-001 | S | SS01 | 09/16/19 12:48 | E300_CL | Chloride by EPA 300 | 09/23/19 | 03/14/20 | JKR | CL | |
| 637051-002 | S | SS02 | 09/16/19 12:49 | SW8021B | BTEX by EPA 8021B | 09/23/19 | 09/30/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 637051-002 | S | SS02 | 09/16/19 12:49 | E300_CL | Chloride by EPA 300 | 09/23/19 | 03/14/20 | JKR | CL | |
| 637051-002 | S | SS02 | 09/16/19 12:49 | SW9045C | Soil pH by SW-846 9045C | 09/23/19 | 10/14/19 | JKR | | |
| 637051-002 | S | SS02 | 09/16/19 12:49 | SW8015MOD_NM | TPH by SW8015 Mod | 09/23/19 | 09/30/19 | JKR | GRO-DRO PHCC10C28 PH | |
| 637051-003 | S | SS03 | 09/16/19 12:50 | SW9045C | Soil pH by SW-846 9045C | 09/23/19 | 10/14/19 | JKR | | |
| 637051-003 | S | SS03 | 09/16/19 12:50 | SW8021B | BTEX by EPA 8021B | 09/23/19 | 09/30/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 637051-003 | S | SS03 | 09/16/19 12:50 | SW8015MOD_NM | TPH by SW8015 Mod | 09/23/19 | 09/30/19 | JKR | GRO-DRO PHCC10C28 PH | |
| 637051-003 | S | SS03 | 09/16/19 12:50 | E300_CL | Chloride by EPA 300 | 09/23/19 | 03/14/20 | JKR | CL | |
| 637051-004 | S | SS04 | 09/16/19 12:51 | SW8021B | BTEX by EPA 8021B | 09/23/19 | 09/30/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 637051-004 | S | SS04 | 09/16/19 12:51 | SW8015MOD_NM | TPH by SW8015 Mod | 09/23/19 | 09/30/19 | JKR | GRO-DRO PHCC10C28 PH | |
| 637051-004 | S | SS04 | 09/16/19 12:51 | E300_CL | Chloride by EPA 300 | 09/23/19 | 03/14/20 | JKR | CL | |
| 637051-004 | S | SS04 | 09/16/19 12:51 | SW9045C | Soil pH by SW-846 9045C | 09/23/19 | 10/14/19 | JKR | | |

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 09/17/2019

Received By:

Brianna Teel

Date Received: 09/18/2019 11:27

Cooler Temperature: 2.1



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 48122

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : R8

| Sent By: | Elizabeth McClellan | Date Sent: | 09/17/2019 11:12 AM |
|--------------|---------------------|----------------|---------------------|
| Received By: | Brianna Teel | Date Received: | 09/18/2019 11:27 AM |

| Sample Receipt Checklist | | Comments |
|---|-----|----------|
| #1 *Temperature of cooler(s)? | 2.1 | |
| #2 *Shipping container in good condition? | Yes | |
| #3 *Samples received with appropriate temperature? | Yes | |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes | |
| #5 *Custody Seals Signed and dated for Containers/coolers | Yes | |
| #6 *IOS present? | Yes | |
| #7 Any missing/extra samples? | No | |
| #8 IOS agrees with sample label(s)/matrix? | Yes | |
| #9 Sample matrix/ properties agree with IOS? | Yes | |
| #10 Samples in proper container/ bottle? | Yes | |
| #11 Samples properly preserved? | Yes | |
| #12 Sample container(s) intact? | Yes | |
| #13 Sufficient sample amount for indicated test(s)? | Yes | |
| #14 All samples received within hold time? | Yes | |

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

NonConformance:

Corrective Action Taken:

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by:

| Brince Tel | 1 |
|------------|--------|
| Briann | a Teel |

Date: 09/18/2019



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 09/17/2019 08:45:00 AM Temperature Measuring device used : T-NM-007 Work Order #: 637051 Sample Receipt Checklist Comments

| #1 *Temperature of cooler(s)? | 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? | Νο |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | Yes Midland. |
| #18 Water VOC samples have zero headspace? | N/A |
| | |

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

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Checklist completed by:

 Elizabeth McClellan

 Checklist reviewed by:
 Jessica Kramer

Date: 09/17/2019

Date: 09/18/2019

Analytical Report 643864

for

LT Environmental, Inc.

Project Manager: Dan Moir

Los Medanos 36-23-30 State#703H

012919093

22-NOV-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



22-NOV-19

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

Reference: XENCO Report No(s): 643864 Los Medanos 36-23-30 State#703H 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) 643864. 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. 643864 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,

fession Vermer

 Jessica Kramer

 Project Assistant

 Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 643864

LT Environmental, Inc., Arvada, CO

Los Medanos 36-23-30 State#703H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| PH01 | S | 11-20-19 10:07 | 1 ft | 643864-001 |
| PH01A | S | 11-20-19 10:06 | 2 ft | 643864-002 |
| PH02 | S | 11-20-19 10:15 | 1 ft | 643864-003 |
| PH02A | S | 11-20-19 10:14 | 2 ft | 643864-004 |
| PH03 | S | 11-20-19 10:21 | 1 ft | 643864-005 |
| PH03A | S | 11-20-19 10:20 | 2 ft | 643864-006 |
| PH04 | S | 11-20-19 10:27 | 1 ft | 643864-007 |
| PH04A | S | 11-20-19 10:26 | 2 ft | 643864-008 |

.



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Los Medanos 36-23-30 State#703H

 Project ID:
 012919093

 Work Order Number(s):
 643864

Report Date: 22-NOV-19 Date Received: 11/20/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3108185 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



012919093 **Project Id: Contact:**

Dan Moir

Project Location:

Certificate of Analysis Summary 643864

LT Environmental, Inc., Arvada, CO

Project Name: Los Medanos 36-23-30 State#703H

Date Received in Lab: Wed Nov-20-19 12:35 pm Report Date: 22-NOV-19

Project Manager: Jessica Kramer

| | Lab Id: | 643864- | 001 | 643864-0 | 002 | 643864- | 003 | 643864- | 004 | 643864- | 005 | 643864- | 006 |
|-----------------------|------------|-----------|----------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
| Analysis Requested | Field Id: | PH01 | <u>l</u> | PH014 | 4 | PH02 | 1 | PH02. | A | PH03 | 3 | PH03/ | A |
| Analysis Requested | Depth: | 1- ft | | 2- ft | | 1- ft | | 2- ft | | 1- ft | | 2- ft | |
| | Matrix: | SOIL | | SOIL | | SOIL | , | SOIL | | SOIL | | SOIL | |
| | Sampled: | Nov-20-19 | 10:07 | Nov-20-19 | 10:06 | Nov-20-19 | 10:15 | Nov-20-19 | 10:14 | Nov-20-19 | 10:21 | Nov-20-19 | 10:20 |
| BTEX by EPA 8021B | Extracted: | Nov-20-19 | 14:11 | Nov-20-19 | 14:11 | Nov-20-19 | 14:11 | Nov-20-19 | 14:11 | Nov-20-19 | 14:11 | Nov-20-19 | 14:11 |
| | Analyzed: | Nov-20-19 | 22:44 | Nov-20-19 | 23:01 | Nov-20-19 | 23:19 | Nov-20-19 | 23:36 | Nov-20-19 | 23:53 | Nov-21-19 | 00:11 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00198 | 0.00198 |
| Toluene | | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00198 | 0.00198 |
| Ethylbenzene | | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00198 | 0.00198 |
| m,p-Xylenes | | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00198 | 0.00198 |
| o-Xylene | | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00198 | 0.00198 |
| Total Xylenes | | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00198 | 0.00198 |
| Total BTEX | | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00200 | 0.00200 | < 0.00198 | 0.00198 | < 0.00198 | 0.00198 |
| Chloride by EPA 300 | Extracted: | Nov-20-19 | 16:11 | Nov-20-19 | 16:11 | Nov-20-19 | 16:11 | Nov-20-19 | 16:11 | Nov-20-19 | 16:11 | Nov-20-19 | 16:11 |
| | Analyzed: | Nov-20-19 | 18:35 | Nov-20-19 | 18:52 | Nov-20-19 | 18:58 | Nov-20-19 | 19:04 | Nov-20-19 | 19:10 | Nov-20-19 | 19:28 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <9.98 | 9.98 | <10.0 | 10.0 | 14.7 | 10.1 | <10.0 | 10.0 | 12.6 | 9.92 | 22.8 | 9.88 |
| PH By SW9045D | Extracted: | | | | | | | | | | | | |
| SUB: T104704215-19-30 | Analyzed: | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 |
| | Units/RL: | Deg C | RL | Deg C | RL | Deg C | RL | Deg C | RL | Deg C | RL | Deg C | RL |
| Temperature | | 23.2 + | | 24.7 + | | 25.2 + | | 24.7 + | | 24.9 + | | 24.6 + | |
| PH By SW9045D | Extracted: | | | | | | | | | | | | |
| SUB: T104704215-19-30 | Analyzed: | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 | Nov-21-19 | 10:57 |
| | Units/RL: | SU | RL | SU | RL | SU | RL | SU | RL | SU | RL | SU | RL |
| pH in Water | | 8.18 | | 8.29 | | 8.37 | | 8.03 | | 8.18 | | 8.15 | |

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Jessica Kramer Project Assistant



Project Id:012919093Contact:Dan Moir

Project Location:

Certificate of Analysis Summary 643864

LT Environmental, Inc., Arvada, CO

Project Name: Los Medanos 36-23-30 State#703H

Date Received in Lab: Wed Nov-20-19 12:35 pm Report Date: 22-NOV-19

Project Manager: Jessica Kramer

| | Lab Id: | 643864-0 | 01 | 643864-0 | 02 | 643864-0 | 03 | 643864-0 | 04 | 643864-0 | 05 | 643864-0 | 06 |
|------------------------------------|------------|-------------|-------|-------------|------|-------------|-------|-------------|-------|-------------|-------|-------------|------|
| Analysis Requested | Field Id: | PH01 | | PH01A | | PH02 | | PH02A | | PH03 | | PH03A | |
| Analysis Requested | Depth: | 1- ft | | 2- ft 1- ft | | | 2- ft | | 1- ft | | 2- ft | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Nov-20-19 1 | 0:07 | Nov-20-19 1 | 0:06 | Nov-20-19 | 0:15 | Nov-20-19 1 | 10:14 | Nov-20-19 | 0:21 | Nov-20-19 1 | 0:20 |
| TPH by SW8015 Mod | Extracted: | Nov-20-19 | 16:30 | Nov-20-19 1 | 6:30 | Nov-20-19 1 | 6:30 | Nov-20-19 1 | 6:30 | Nov-20-19 | 6:30 | Nov-20-19 1 | 6:30 |
| | Analyzed: | Nov-20-192 | 21:53 | Nov-20-19 2 | 2:13 | Nov-20-19 2 | 22:33 | Nov-20-19 2 | 22:53 | Nov-20-19 2 | 23:13 | Nov-20-19 2 | 3:33 |
| | Units/RL: | 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 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.1 | 50.1 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.1 | 50.1 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.1 | 50.1 | <49.8 | 49.8 |
| Total GRO-DRO | | <49.8 | 49.8 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.1 | 50.1 | <49.8 | 49.8 |
| Total TPH | | <49.8 | 49.8 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.1 | 50.1 | <49.8 | 49.8 |

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Jessica Kramer Project Assistant

Page 6 of 32

Final 1.000



Project Id:012919093Contact:Dan Moir

Project Location:

Certificate of Analysis Summary 643864

LT Environmental, Inc., Arvada, CO

Project Name: Los Medanos 36-23-30 State#703H

Date Received in Lab:Wed Nov-20-19 12:35 pmReport Date:22-NOV-19Project Manager:Jessica Kramer

| | Lab Id: | 643864-00 | 07 | 643864-0 | 08 | | |
|-----------------------|------------|-------------|---------|-------------|---------|--|--|
| | Field Id: | PH04 | | PH04A | | | |
| Analysis Requested | Depth: | 1- ft | | 2- ft | | | |
| | Matrix: | SOIL | | SOIL | | | |
| | Sampled: | Nov-20-19 1 | 0:27 | Nov-20-19 | 10:26 | | |
| BTEX by EPA 8021B | Extracted: | Nov-20-19 1 | 4:11 | Nov-20-19 | 14:11 | | |
| | Analyzed: | Nov-21-190 | 0:28 | Nov-21-19 (| 00:46 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | | |
| Benzene | | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Toluene | | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Ethylbenzene | | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| m,p-Xylenes | | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| o-Xylene | | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Total Xylenes | | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Total BTEX | | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Chloride by EPA 300 | Extracted: | Nov-20-19 1 | 6:11 | Nov-20-19 | 16:11 | | |
| | Analyzed: | Nov-20-19 1 | 9:34 | Nov-20-19 2 | 21:21 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | | |
| Chloride | | 15.7 | 9.98 | <9.88 | 9.88 | | |
| PH By SW9045D | Extracted: | | | | | | |
| SUB: T104704215-19-30 | Analyzed: | Nov-21-19 1 | 0:57 | Nov-21-19 | 10:57 | | |
| | Units/RL: | Deg C | RL | Deg C | RL | | |
| Temperature | | 24.1 + | | 23.1 + | | | |
| PH By SW9045D | Extracted: | | | | | | |
| SUB: T104704215-19-30 | Analyzed: | Nov-21-19 1 | 0:57 | Nov-21-19 | 10:57 | | |
| | Units/RL: | SU | RL | SU | RL | | |
| pH in Water | | 8.61 | | 8.67 | | | |

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fession Vermer

Jessica Kramer Project Assistant



Project Id:012919093Contact:Dan Moir

Project Location:

Certificate of Analysis Summary 643864

LT Environmental, Inc., Arvada, CO

Project Name: Los Medanos 36-23-30 State#703H

Date Received in Lab:Wed Nov-20-19 12:35 pmReport Date:22-NOV-19Project Manager:Jessica Kramer

| | Lab Id: | 643864-0 | 07 | 643864-0 | 08 | | |
|------------------------------------|------------|------------|-------|-------------|------|--|--|
| Analysis Requested | Field Id: | PH04 | | PH04A | | | |
| Analysis Requested | Depth: | 1- ft | | 2- ft | | | |
| | Matrix: | SOIL | | SOIL | | | |
| | Sampled: | Nov-20-19 | 10:27 | Nov-20-19 1 | 0:26 | | |
| TPH by SW8015 Mod | Extracted: | Nov-20-19 | 16:30 | Nov-20-19 1 | 6:30 | | |
| | Analyzed: | Nov-20-192 | 23:53 | Nov-21-19 0 | 0:12 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <49.8 | 49.8 | | |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <49.8 | 49.8 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <49.8 | 49.8 | | |
| Total GRO-DRO | | <49.8 | 49.8 | <49.8 | 49.8 | | |
| Total TPH | | <49.8 | 49.8 | <49.8 | 49.8 | | |

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Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH01 Lab Sample Id: 643864-001 | | Matrix: Date Coll | Soil ected: 11.20.1 | 19 10.07 | | Date Received:11.2 Sample Depth: 1 ft | | 5 |
|--|---|---|---|-------------------|---|---|--|------------------------------|
| Analytical Method: Chloride by EI | PA 300 | | | | F | Prep Method: E30 | 00P | |
| Tech: MAB | | | | | | % Moisture: | | |
| Analyst: MAB | | Date Prep | : 11.20.1 | 19 16.11 | E | Basis: We | t Weight | |
| Seq Number: 3108187 | | r | - | | | | C | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Chloride | 16887-00-6 | <9.98 | 9.98 | | mg/kg | 11.20.19 18.35 | U | 1 |
| Analytical Method: PH By SW904 | 5D | | | | | | | |
| Tech: KBU | | | | | 9 | % Moisture: | | |
| Analyst: KBU | | | | | E | Basis: We | t Weight | |
| Seq Number: 3108243 | | | | | S | SUB: T104704215 | -19-30 | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| | | | | | | | | |
| pH in Water | 12408-02-5 | 8.18 | | | SU | 11.21.19 10.57 | | 1 |
| pH in Water Temperature | 12408-02-5 TEMP | 8.18 23.2 | | | SU Deg C | 11.21.19 10.57 11.21.19 10.57 | + | 1 1 |
| | | | | | | | + | |
| | ТЕМР | | | | Deg C | | | |
| Temperature Analytical Method: TPH by SW80 Tech: DTH | ТЕМР | | | | Deg C F | 11.21.19 10.57 | | |
| Temperature Analytical Method: TPH by SW80 | ТЕМР | | : 11.20. | 19 16.30 | Deg C F 9 | 11.21.19 10.57 Prep Method: SW % Moisture: | | |
| Temperature Analytical Method: TPH by SW80 Tech: DTH | ТЕМР | 23.2 | : 11.20. | 19 16.30 | Deg C F 9 | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH | ТЕМР | 23.2 | : 11.20. | 19 16.30 | Deg C F 9 | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | |
| TemperatureAnalytical Method: TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3108192 | TEMP | 23.2 Date Prep | | 19 16.30 | Deg C F 9 F | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We | 8015P t Weight | 1 |
| TemperatureAnalytical Method: TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3108192Parameter | TEMP 15 Mod Cas Number | 23.2 Date Prep Result | RL | 19 16.30 | Deg C F 9 E Units | 11.21.19 10.57 Prep Method: SW Moisture: Basis: We Analysis Date | 8015P t Weight Flag | 1 Dil |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) | TEMP 15 Mod Cas Number PHC610 | 23.2 Date Prep Result <49.8 | RL 49.8 | 19 16.30 | Deg C F 9 E Units mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Analysis Date 11.20.19 21.53 | 8015P t Weight Flag U | 1 Dil |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) | TEMP 15 Mod Cas Number PHC610 C10C28DRO | 23.2 Date Prep Result <49.8 <49.8 | RL 49.8 49.8 | 19 16.30 | Deg C F 9 E Units mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Analysis Date 11.20.19 21.53 11.20.19 21.53 | 8015P t Weight Flag U U | 1 Dil 1 |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) | TEMP 15 Mod Cas Number PHC610 C10C28DRO PHCG2835 | 23.2 Date Prep Result <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 | 19 16.30 | Deg C F 9 E Units mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We <u>Analysis Date</u> 11.20.19 21.53 11.20.19 21.53 11.20.19 21.53 | 8015P t Weight Flag U U U U | 1 Dil 1 1 1 |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total GRO-DRO | TEMP 15 Mod Cas Number PHC610 C10C28DR0 PHCG2835 PHC628 | 23.2 Date Prep Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 % | 19 16.30 Units | Deg C F 9 E Units mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Malysis Date 11.20.19 21.53 11.20.19 21.53 11.20.19 21.53 11.20.19 21.53 11.20.19 21.53 11.20.19 21.53 | 8015P t Weight Flag U U U U U | 1 Dil 1 1 1 1 |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Diesel Range Organics (MRO) Total GRO-DRO Total TPH | TEMP 15 Mod Cas Number PHC610 C10C28DR0 PHCG2835 PHC628 | 23.2 Date Prep Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 | | Deg C F 9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We <u>Analysis Date</u> 11.20.19 21.53 11.20.19 21.53 11.20.19 21.53 11.20.19 21.53 11.20.19 21.53 | 8015P t Weight Flag U U U U U U U | 1 Dil 1 1 1 1 |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH01 Lab Sample Id: 643864-001 | | Matrix: Date Collecte | Soil d: 11.20.19 10.07 | | Date Received Sample Depth | | 19 12.35 | , I |
|---|------------|--------------------------|---------------------------|-------|-------------------------------|-------|----------|--------|
| Analytical Method: BTEX by EPA 8 Tech: MAB | 3021B | | | | Prep Method: % Moisture: | SW50 | 30B | |
| Tech: MAB Analyst: MAB | | Date Prep: | 11.20.19 14.11 | | Basis: | Wet W | Veight | |
| Seq Number: 3108185 | | | | | | | | |
| Parameter | Cas Number | Result F | RL | Units | Analysis D | ate | Flag | Dil |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 22.44 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 22.44 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 22.44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 22.44 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 22.44 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 22.44 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 22.44 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 98 | % | 70-130 | 11.20.19 22.44 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 103 | % | 70-130 | 11.20.19 22.44 | | |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH01A Lab Sample Id: 643864-002 | | Matrix: Date Colle | Soil ected: 11.20. | .19 10.06 | | Date Received:11.2 Sample Depth: 2 ft | | 5 |
|--|--|--|--|--------------------|--|---|---|--------------------------------------|
| Analytical Method: Chloride by El | PA 300 | | | | | Prep Method: E30 |)0P | |
| Tech: MAB | 11000 | | | | | % Moisture: | | |
| Analyst: MAB | | Date Prep | . 11.20 | .19 16.11 | | | t Weight | |
| Seq Number: 3108187 | | Date Flep | . 11.20. | .19 10.11 | | Dasis. We | t weight | |
| Seq Number. 5100107 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Chloride | 16887-00-6 | <10.0 | 10.0 | | mg/kg | 11.20.19 18.52 | U | 1 |
| Analytical Method: PH By SW904 | 5D | | | | | | | |
| Tech: KBU | | | | | | % Moisture: | | |
| Analyst: KBU | | | | |] | Basis: We | t Weight | |
| Seq Number: 3108243 | | | | | | SUB: T104704215 | U | |
| | | | DI | | Units | Analysis Date | Flag | Dil |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | | 2 |
| Parameter pH in Water | Cas Number 12408-02-5 | Result 8.29 | KL | | SU | 11.21.19 10.57 | | 1 |
| | | | KL | | | | + | |
| pH in Water | 12408-02-5 TEMP | 8.29 | <u>KL</u> | | SU Deg C | 11.21.19 10.57 | + | 1 |
| pH in Water Temperature | 12408-02-5 TEMP | 8.29 | <u>KL</u> | | SU Deg C | 11.21.19 10.57 11.21.19 10.57 | + | 1 |
| pH in Water Temperature Analytical Method: TPH by SW80 | 12408-02-5 TEMP | 8.29 | | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: | + | 1 |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH | 12408-02-5 TEMP | 8.29 24.7 | | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: | + 8015P | 1 |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH | 12408-02-5 TEMP | 8.29 24.7 | | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: | + 8015P | 1 |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 | 12408-02-5 TEMP 15 Mod | 8.29 24.7 Date Prep | : 11.20. | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We | + 8015P t Weight | 1 |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter | 12408-02-5 TEMP 15 Mod Cas Number | 8.29 24.7 Date Prep Result | : 11.20. RL | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Analysis Date | + 8015P t Weight Flag | 1 1 Dil |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) | 12408-02-5 TEMP 15 Mod Cas Number PHC610 | 8.29 24.7 Date Prep Result <50.2 | : 11.20. RL 50.2 | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We <u>Analysis Date</u> 11.20.19 22.13 | + 8015P t Weight Flag U | 1 1 Dil |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) | 12408-02-5 TEMP 15 Mod Cas Number PHC610 C10C28DRO | 8.29 24.7 Date Prep Result <50.2 <50.2 | : 11.20. RL 50.2 50.2 | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We <u>Analysis Date</u> 11.20.19 22.13 11.20.19 22.13 | + 8015P t Weight Flag U U | 1 1 Dil 1 |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) | 12408-02-5 TEMP 15 Mod Cas Number PHC610 C10C28DRO PHCG2835 | 8.29 24.7 Date Prep Result <50.2 <50.2 <50.2 | : 11.20. RL 50.2 50.2 50.2 | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Analysis Date 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 | + 8015P t Weight Flag U U U U | 1 1 1 1 1 1 1 |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO | 12408-02-5 TEMP 15 Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | 8.29 24.7 Date Prep Result <50.2 <50.2 <50.2 <50.2 <50.2 | : 11.20. RL 50.2 50.2 50.2 50.2 50.2 | .19 16.30 Units | SU Deg C Units mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Malysis Date 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 | + 8015P t Weight Flag U U U U | 1 1 1 1 1 1 1 1 |
| pH in Water Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH | 12408-02-5 TEMP 15 Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635 | 8.29 24.7 Date Prep Result <50.2 <50.2 <50.2 <50.2 <50.2 | : 11.20. RL 50.2 50.2 50.2 50.2 50.2 50.2 % | | SU Deg C Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Analysis Date 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 11.20.19 22.13 | + 8015P t Weight U U U U U U U U | 1 1 1 1 1 1 1 1 |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: Lab Sample Id | PH01A 1: 643864-002 | | Matrix: Date Collect | Soil ed: 11.20.19 10.06 | | Date Received:1 Sample Depth:2 | | 5 |
|-----------------------------|-------------------------------|------------|-------------------------|----------------------------|-------|-----------------------------------|------------|-----|
| Analytical Me Tech: | ethod: BTEX by EPA 80 MAB | 021B | | | | Prep Method: S % Moisture: | SW5030B | |
| Analyst: | MAB | | Date Prep: | 11.20.19 14.11 | | | Wet Weight | |
| Seq Number: Parameter | 3108185 | Cas Number | Result | RL | Units | Analysis Date | e Flag | Dil |
| Dangana | | 71 42 0 | <0.00108 0 | 00109 | | 11 20 10 22 01 | 8 | 1 |

| | | | | | | 8 | |
|-------------|--|-------------------------|-------------------------|-------------------------|-------------------------|---|---|
| 71-43-2 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.01 | U | 1 |
| 108-88-3 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.01 | U | 1 |
| 100-41-4 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.01 | U | 1 |
| 179601-23-1 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.01 | U | 1 |
| 95-47-6 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.01 | U | 1 |
| 1330-20-7 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.01 | U | 1 |
| | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.01 | U | 1 |
| | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| | 460-00-4 | 107 | % | 70-130 | 11.20.19 23.01 | | |
| | 540-36-3 | 99 | % | 70-130 | 11.20.19 23.01 | | |
| | 108-88-3 100-41-4 179601-23-1 95-47-6 | 108-88-3 <0.00198 | 108-88-3 <0.00198 | 108-88-3 <0.00198 | 108-88-3 <0.00198 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH02 Lab Sample Id: 643864-003 | | Matrix: Date Colle | Soil ected: 11.20. | .19 10.15 | | Date Received:11.2 Sample Depth: 1 ft | | 5 |
|--|---|---|--|--------------------|---|---|--|------------------------------|
| Analytical Method: Chloride by E | PA 300 | | | | | Prep Method: E30 |)0P | |
| Tech: MAB | 111 500 | | | | | % Moisture: | 01 | |
| Analyst: MAB | | Date Prep | 11.20 | .19 16.11 | | | t Weight | |
| Seq Number: 3108187 | | Date Prep | 11.20 | .19 10.11 | | Dasis. We | t weight | |
| Seq Number: 5108187 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Chloride | 16887-00-6 | 14.7 | 10.1 | | mg/kg | 11.20.19 18.58 | | 1 |
| Analytical Method: PH By SW904 | 45D | | | | | | | |
| Tech: KBU | | | | | , | % Moisture: | | |
| Analyst: KBU | | | | | | | t Weight | |
| Seq Number: 3108243 | | | | | | SUB: T104704215 | U | |
| Seq Number: 5108245 | | | | | 1 | SUB. 1104704213 | -19-30 | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| | | | | | | | | |
| pH in Water | 12408-02-5 | 8.37 | | | SU | 11.21.19 10.57 | | 1 |
| pH in Water Temperature | 12408-02-5 TEMP | 8.37 25.2 | | | SU Deg C | 11.21.19 10.57 11.21.19 10.57 | + | 1 1 |
| Temperature | ТЕМР | | | | Deg C | 11.21.19 10.57 | | |
| Temperature Analytical Method: TPH by SW80 | ТЕМР | | | | Deg C | 11.21.19 10.57 Prep Method: SW | | |
| Temperature Analytical Method: TPH by SW80 Tech: DTH | ТЕМР | | | | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | |
| TemperatureAnalytical Method:Tech:DTHAnalyst:DTH | ТЕМР | | 11.20 | .19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: | | |
| Temperature Analytical Method: TPH by SW80 Tech: DTH | ТЕМР | 25.2 | 11.20 | 19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | |
| TemperatureAnalytical Method:Tech:DTHAnalyst:DTH | ТЕМР | 25.2 | 11.20. RL | .19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | |
| TemperatureAnalytical Method: TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3108192 | TEMP)15 Mod | 25.2 Date Prep | | .19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet | 8015P t Weight | 1 |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter | TEMP)15 Mod Cas Number | 25.2 Date Prep Result | RL | .19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW Moisture: Basis: Wether Analysis Date | 8015P t Weight Flag | 1 Dil |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) | TEMP)15 Mod Cas Number PHC610 | 25.2 Date Prep Result <50.2 | RL 50.2 | .19 16.30 | Deg C Units | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet <u>Analysis Date</u> 11.20.19 22.33 | 8015P t Weight Flag U | 1 Dil |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) | TEMP 015 Mod Cas Number PHC610 C10C28DRO | 25.2 Date Prep Result <50.2 <50.2 | RL 50.2 50.2 | .19 16.30 | Deg C Units mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date 11.20.19 22.33 11.20.19 22.33 | 8015P t Weight Flag U U | 1 Dil 1 |
| Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) | TEMP 015 Mod Cas Number PHC610 C10C28DRO PHCG2835 | 25.2 Date Prep Result <50.2 <50.2 <50.2 | RL 50.2 50.2 50.2 | .19 16.30 | Deg C Units mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date 11.20.19 22.33 11.20.19 22.33 11.20.19 22.33 | 8015P t Weight Flag U U U U | 1 Dil 1 1 1 |
| Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO | TEMP 015 Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | 25.2 Date Prep Result <50.2 <50.2 <50.2 <50.2 <50.2 <50.2 | RL 50.2 50.2 50.2 50.2 50.2 | .19 16.30 Units | Deg C Units mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date 11.20.19 22.33 11.20.19 22.33 11.20.19 22.33 11.20.19 22.33 | 8015P t Weight Flag U U U U U | 1 Dil 1 1 1 1 |
| Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH | TEMP 015 Mod Cas Number PHC610 C10C28DRO PHC62835 PHC628 PHC635 | 25.2 Date Prep Result <50.2 <50.2 <50.2 <50.2 <50.2 <50.2 | RL 50.2 50.2 50.2 50.2 50.2 50.2 % | | Deg C Units mg/kg mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date 11.20.19 22.33 11.20.19 22.33 11.20.19 22.33 11.20.19 22.33 11.20.19 22.33 | 8015P t Weight Flag U U U U U U U | 1 Dil 1 1 1 1 |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id:PH02Lab Sample Id:643864-003 | | Matrix: Date Collecte | Soil ed: 11.20.19 10.15 | | Date Received Sample Depth | l:11.20.19 12.3 :1 ft | 5 |
|---|------------|--------------------------|----------------------------|-------|-------------------------------|--------------------------|-----|
| Analytical Method: BTEX by EPA 802 Tech: MAB | 21B | | | | Prep Method: % Moisture: | SW5030B | |
| Analyst: MAB | | Date Prep: | 11.20.19 14.11 | | Basis: | Wet Weight | |
| Seq Number: 3108185 Parameter | Cas Number | Result H | RL | Units | Analysis D | ate Flag | Dil |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00202 | 0.00202 | | mg/kg | 11.20.19 23.19 | U | 1 |
| Toluene | 108-88-3 | < 0.00202 | 0.00202 | | mg/kg | 11.20.19 23.19 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00202 | 0.00202 | | mg/kg | 11.20.19 23.19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00202 | 0.00202 | | mg/kg | 11.20.19 23.19 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00202 | 0.00202 | | mg/kg | 11.20.19 23.19 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00202 | 0.00202 | | mg/kg | 11.20.19 23.19 | U | 1 |
| Total BTEX | | < 0.00202 | 0.00202 | | mg/kg | 11.20.19 23.19 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 111 | % | 70-130 | 11.20.19 23.19 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 97 | % | 70-130 | 11.20.19 23.19 | | |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH02A Lab Sample Id: 643864-004 | | Matrix: Date Colle | Soil ected: 11.20.19 10.14 | | Date Received:11.2 Sample Depth: 2 ft | | 5 |
|---|---|---|--|---|---|--|------------------|
| Analytical Method: Chloride by EPA | A 300 | | | | Prep Method: E30 |)0P | |
| Tech: MAB | | | | | % Moisture: | | |
| Analyst: MAB | | Date Prep | : 11.20.19 16.11 | | | t Weight | |
| Seq Number: 3108187 | | Duterrep | | | | | |
| Soq Ramoon Crosses | | | | | | | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Chloride | 16887-00-6 | <10.0 | 10.0 | mg/kg | 11.20.19 19.04 | U | 1 |
| Analytical Method: PH By SW9045 | SD | | | | | | |
| Tech: KBU | | | | | % Moisture: | | |
| Analyst: KBU | | | | | Basis: We | t Weight | |
| Seq Number: 3108243 | | | | | SUB: T104704215 | -19-30 | |
| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| pH in Water | 12408-02-5 | 8.03 | | SU | 11.21.19 10.57 | | 1 |
| Temperature | TEMP | 24.7 | | Deg C | 11.21.19 10.57 | + | 1 |
| | | | | | | | |
| Analytical Method: TPH by SW801 | | | | | | 00150 | |
| The second se | 5 Mod | | | | Prep Method: SW | 8015P | |
| Tech: DTH | 5 Mod | | | | % Moisture: | | |
| Analyst: DTH | 5 Mod | Date Prep | : 11.20.19 16.30 | | % Moisture: | 8015P t Weight | |
| | 5 Mod | Date Prep | : 11.20.19 16.30 | | % Moisture: | | |
| Analyst: DTH | 5 Mod Cas Number | - | : 11.20.19 16.30 RL | | % Moisture: | | Dil |
| Analyst: DTH Seq Number: 3108192 | | - | | | % Moisture: Basis: Wet | t Weight | Dil 1 |
| Analyst: DTH Seq Number: 3108192 Parameter | Cas Number | Result | RL | Units | % Moisture: Basis: Wet Analysis Date | t Weight Flag | |
| Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) | Cas Number PHC610 | Result <49.9 | RL 49.9 | Units mg/kg | % Moisture: Basis: Wet Analysis Date 11.20.19 22.53 | t Weight Flag U | 1 |
| Analyst:DTHSeq Number:3108192ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO) | Cas Number PHC610 C10C28DRO | Result <49.9 <49.9 | RL 49.9 49.9 | Units mg/kg mg/kg | % Moisture: Basis: Wet Analysis Date 11.20.19 22.53 11.20.19 22.53 | t Weight Flag U U | 1 |
| Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) | Cas Number PHC610 C10C28DRO PHCG2835 | Result <49.9 <49.9 <49.9 <49.9 | RL 49.9 49.9 49.9 | Units mg/kg mg/kg | % Moisture: Basis: Wer Analysis Date 11.20.19 22.53 11.20.19 22.53 11.20.19 22.53 | t Weight Flag U U U | 1 1 1 |
| Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO | Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 | RL 49.9 49.9 49.9 49.9 49.9 49.9 % | Units mg/kg mg/kg mg/kg mg/kg | % Moisture: Basis: Wet Analysis Date 11.20.19 22.53 11.20.19 22.53 11.20.19 22.53 11.20.19 22.53 11.20.19 22.53 | t Weight Flag U U U U U | 1 1 1 1 |
| Analyst:DTHSeq Number:3108192ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DROTotal TPH | Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 | RL 49.9 49.9 49.9 49.9 49.9 49.9 49.9 % | Units mg/kg mg/kg mg/kg mg/kg | % Moisture: Basis: Wet Analysis Date 11.20.19 22.53 11.20.19 22.53 11.20.19 22.53 11.20.19 22.53 11.20.19 22.53 11.20.19 22.53 Analysis Date | t Weight Flag U U U U U U | 1 1 1 1 |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH02A Lab Sample Id: 643864-004 | | Matrix: Date Collecte | Soil d: 11.20.19 10.14 | | Date Received Sample Depth | :11.20.19 12.3 2 ft | 35 |
|--|------------|--------------------------|---------------------------|-------|-------------------------------|------------------------|-----|
| Analytical Method: BTEX by EPA 8 Tech: MAB | 021B | | | | Prep Method: % Moisture: | SW5030B | |
| Analyst: MAB | | Date Prep: | 11.20.19 14.11 | | Basis: | Wet Weight | |
| Seq Number: 3108185 Parameter | Cas Number | Result F | L | Units | Analysis Da | ite Flag | Dil |

| Cas Number | · Result | RL | | Units | Analysis Date | Flag | Dil |
|-------------|---|------------------------|--|------------------------|--|---|---|
| 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 23.36 | U | 1 |
| 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 23.36 | U | 1 |
| 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 23.36 | U | 1 |
| 179601-23-1 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 23.36 | U | 1 |
| 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 23.36 | U | 1 |
| 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 23.36 | U | 1 |
| | < 0.00200 | 0.00200 | | mg/kg | 11.20.19 23.36 | U | 1 |
| | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| | 540-36-3 | 100 | % | 70-130 | 11.20.19 23.36 | | |
| | 460-00-4 | 112 | % | 70-130 | 11.20.19 23.36 | | |
| | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 71-43-2 <0.00200 | 71-43-2 <0.00200 0.00200 108-88-3 <0.00200 | 71-43-2 <0.00200 | 71-43-2 <0.00200 0.00200 mg/kg 108-88-3 <0.00200 | 71-43-2 <0.00200 mg/kg 11.20.19 23.36 108-88-3 <0.00200 | 71-43-2 <0.00200 mg/kg 11.20.19 23.36 U 108-88-3 <0.00200 |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: Lab Sample I | PH03 d: 643864-005 | | Matrix: Date Colle | Soil ected: 11.20 | .19 10.21 | | Date Received:11. Sample Depth:1 ft | | 5 |
|--|---|---|--|---|--------------------|--|---|--|--------------------------------------|
| Analytical Me | ethod: Chloride by EPA | 300 | | | | I | Prep Method: E30 | 00P | |
| Tech: | MAB | | | | | | % Moisture: | | |
| Analyst: | MAB | | Date Prep | · 11.20 | .19 16.11 | | | t Weight | |
| Seq Number: | | | Dute Trep | | | | | | |
| Parameter | | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Chloride | | 16887-00-6 | 12.6 | 9.92 | | mg/kg | 11.20.19 19.10 | | 1 |
| | | | | | | | | | |
| | ethod: PH By SW9045D |) | | | | | | | |
| Tech: | KBU | | | | | | % Moisture: | | |
| Analyst: | KBU | | | | | | | t Weight | |
| Seq Number: | 3108243 | | | | | 2 | SUB: T104704215 | 5-19-30 | |
| | | | | | | | | | |
| Parameter | | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Parameter pH in Water | | Cas Number 12408-02-5 | Result 8.18 | RL | | SU | 11.21.19 10.57 | Flag | Dil 1 |
| | | | | RL | | | | Flag + | |
| pH in Water Temperature | | 12408-02-5 TEMP | 8.18 | RL | | SU Deg C | 11.21.19 10.57 11.21.19 10.57 | + | 1 |
| pH in Water Temperature Analytical Me | ethod: TPH by SW8015 | 12408-02-5 TEMP | 8.18 | RL | | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW | + | 1 |
| pH in Water Temperature Analytical Me Tech: | DTH | 12408-02-5 TEMP | 8.18 24.9 | | | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: | + /8015P | 1 |
| pH in Water Temperature Analytical Me Tech: Analyst: | DTH DTH | 12408-02-5 TEMP | 8.18 | | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: | + | 1 |
| pH in Water Temperature Analytical Me Tech: | DTH DTH | 12408-02-5 TEMP | 8.18 24.9 | | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: | + /8015P | 1 |
| pH in Water Temperature Analytical Me Tech: Analyst: | DTH DTH | 12408-02-5 TEMP | 8.18 24.9 Date Prep | | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: | + /8015P | 1 |
| pH in Water Temperature Analytical Me Tech: Analyst: Seq Number: Parameter | DTH DTH | 12408-02-5 TEMP Mod | 8.18 24.9 Date Prep | : 11.20 | .19 16.30 | SU Deg C | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We | + /8015P et Weight | 1 |
| pH in Water Temperature Analytical Me Tech: Analyst: Seq Number: Parameter | DTH DTH 3108192 Hydrocarbons (GRO) | 12408-02-5 TEMP Mod Cas Number | 8.18 24.9 Date Prep Result | : 11.20 RL | .19 16.30 | SU Deg C I Units | 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Analysis Date | + 78015P et Weight Flag | 1 1 Dil |
| pH in Water Temperature Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range Or Diesel Range Or Motor Oil Range F | DTH DTH 3108192 Hydrocarbons (GRO) ganics (DRO) Iydrocarbons (MRO) | 12408-02-5 TEMP Mod Cas Number PHC610 C10C28DRO PHCG2835 | 8.18 24.9 Date Prep Result <50.1 <50.1 <50.1 | : 11.20 RL 50.1 50.1 50.1 | .19 16.30 | SU Deg C J Units mg/kg mg/kg mg/kg | 11.21.19 10.57 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Malysis Date 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 | + /8015P et Weight Flag U U U U | 1 1 1 1 1 1 1 |
| pH in Water Temperature Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range Diesel Range On Motor Oil Range F Total GRO-DRO | DTH DTH 3108192 Hydrocarbons (GRO) ganics (DRO) Iydrocarbons (MRO) | 12408-02-5 TEMP Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | 8.18 24.9 Date Prep Result <50.1 <50.1 <50.1 <50.1 | : 11.20 RL 50.1 50.1 50.1 50.1 50.1 | .19 16.30 | SU Deg C I Units mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Basis: We 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 | + /8015P et Weight Flag U U U U U | 1 1 1 1 1 1 1 1 |
| pH in Water Temperature Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range Or Diesel Range Or Motor Oil Range F | DTH DTH 3108192 Hydrocarbons (GRO) ganics (DRO) Iydrocarbons (MRO) | 12408-02-5 TEMP Mod Cas Number PHC610 C10C28DRO PHCG2835 | 8.18 24.9 Date Prep Result <50.1 <50.1 <50.1 | : 11.20 RL 50.1 50.1 50.1 50.1 50.1 | .19 16.30 | SU Deg C J Units mg/kg mg/kg mg/kg | 11.21.19 10.57 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Malysis Date 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 | + /8015P et Weight Flag U U U U | 1 1 1 1 1 1 1 |
| pH in Water Temperature Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range Diesel Range On Motor Oil Range F Total GRO-DRO | DTH DTH 3108192 Hydrocarbons (GRO) ganics (DRO) Iydrocarbons (MRO) | 12408-02-5 TEMP Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | 8.18 24.9 Date Prep Result <50.1 <50.1 <50.1 <50.1 <50.1 | : 11.20 RL 50.1 50.1 50.1 50.1 50.1 50.1 % | .19 16.30 Units | SU Deg C I Units mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Basis: We 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 | + /8015P et Weight Flag U U U U U | 1 1 1 1 1 1 1 1 |
| pH in Water Temperature Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range Diesel Range On Motor Oil Range F Total GRO-DRO Total TPH | DTH DTH 3108192 Hydrocarbons (GRO) ganics (DRO) Iydrocarbons (MRO) | 12408-02-5 TEMP Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | 8.18 24.9 Date Prep Result <50.1 <50.1 <50.1 <50.1 <50.1 | : 11.20 RL 50.1 50.1 50.1 50.1 50.1 | | SU Deg C Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 11.21.19 10.57 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Basis: We 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 11.20.19 23.13 | + /8015P et Weight Flag U U U U U U U | 1 1 1 1 1 1 1 1 |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH03 Lab Sample Id: 643864-005 | | Matrix: Date Collecte | Soil d: 11.20.19 10.21 | | Date Received Sample Depth | | 0.19 12.35 | |
|---|------------|--------------------------|---------------------------|---------------|---------------------------------------|-----|----------------|-------------|
| Analytical Method: BTEX by EPA 802 Tech: MAB Analyst: MAB | 21B | Date Prep: | 11.20.19 14.11 | | Prep Method: % Moisture: Basis: | | 030B Weight | |
| Seq Number: 3108185 | Cas Number | Result R | Ţ | T T •/ | | | DI | D '' |
| Parameter | Cas Number | Result R | L | Units | Analysis Da | ate | Flag | Dil |

| rarameter | Cas Nulliber | r Kesuit | KL | | Units | Analysis Date | Flag | Dil |
|----------------------|--------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.53 | U | 1 |
| Toluene | 108-88-3 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.53 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.53 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.53 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.53 | U | 1 |
| Total BTEX | | < 0.00198 | 0.00198 | | mg/kg | 11.20.19 23.53 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 108 | % | 70-130 | 11.20.19 23.53 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 90 | % | 70-130 | 11.20.19 23.53 | | |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH03A Lab Sample Id: 643864-006 | | Matrix: Date Colle | Soil cted: 11.20.1 | 9 10.20 | | Date Received:11.3 Sample Depth: 2 ft | | 5 |
|--|---|--|--|------------------|---|--|---|------------------------------|
| Analytical Method: Chloride by E | PA 300 | | | | F | Prep Method: E30 |)()P | |
| Tech: MAB | IA 300 | | | | | % Moisture: | 001 | |
| Analyst: MAB | | Date Prep: | 11.20.1 | 0 16 11 | | | t Weight | |
| Seq Number: 3108187 | | Date Prep: | 11.20.1 | 9 10.11 | 1 | | t weight | |
| Seq Number. 5106187 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Chloride | 16887-00-6 | 22.8 | 9.88 | | mg/kg | 11.20.19 19.28 | | 1 |
| Analytical Method: PH By SW904 | 45D | | | | | | | |
| Tech: KBU | | | | | 9 | % Moisture: | | |
| Analyst: KBU | | | | | E | Basis: We | t Weight | |
| Seq Number: 3108243 | | | | | S | SUB: T104704215 | 5-19-30 | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| | | | | | | | | |
| pH in Water | 12408-02-5 | 8.15 | | | SU | 11.21.19 10.57 | | 1 |
| pH in Water Temperature | 12408-02-5 TEMP | 8.15 24.6 | | | SU Deg C | 11.21.19 10.57 11.21.19 10.57 | + | 1 1 |
| • | | | | | | | + | |
| • | ТЕМР | | | | Deg C | | | |
| Temperature | ТЕМР | | | | Deg C F | 11.21.19 10.57 | | |
| Temperature Analytical Method: TPH by SW80 | ТЕМР | | 11.20.1 | 9 16.30 | Deg C F 9 | 11.21.19 10.57 Prep Method: SW % Moisture: | | |
| Temperature Analytical Method: Tech: DTH | ТЕМР | 24.6 | 11.20.1 | 9 16.30 | Deg C F 9 | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | |
| TemperatureAnalytical Method: TPH by SW80Tech:DTHAnalyst:DTH | ТЕМР | 24.6 | 11.20.1 RL | 9 16.30 | Deg C F 9 | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | |
| TemperatureAnalytical Method: TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3108192 | TEMP 015 Mod | 24.6 Date Prep: | | 9 16.30 | Deg C F 9 F | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We | 78015P t Weight | 1 |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter | TEMP)15 Mod Cas Number | 24.6 Date Prep: Result | RL | 9 16.30 | Deg C F 9 E Units | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We Analysis Date | 8015P t Weight Flag | 1 Dil |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) | TEMP)15 Mod Cas Number PHC610 | 24.6 Date Prep: Result <49.8 | RL 49.8 | 9 16.30 | Deg C F 9 E Units mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We <u>Analysis Date</u> 11.20.19 23.33 | 8015P t Weight Flag U | 1 Dil |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) | TEMP 015 Mod Cas Number PHC610 C10C28DRO | 24.6 Date Prep: Result <49.8 <49.8 | RL 49.8 49.8 | 9 16.30 | Deg C F 9 E Units mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We <u>Analysis Date</u> 11.20.19 23.33 11.20.19 23.33 | 18015P t Weight Flag U U | 1 Dil 1 |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) | TEMP 015 Mod Cas Number PHC610 C10C28DRO PHCG2835 | 24.6 Date Prep: Result <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 | 9 16.30 | Deg C F 9 E Units mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: We <u>Analysis Date</u> 11.20.19 23.33 11.20.19 23.33 11.20.19 23.33 | 78015P t Weight Flag U U U U | 1 Dil 1 1 |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO | TEMP 015 Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | 24.6 Date Prep: Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 % | 9 16.30 Units | Deg C F 9 E Units mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW 6 Moisture: Basis: We Analysis Date 11.20.19 23.33 11.20.19 23.33 11.20.19 23.33 11.20.19 23.33 | 78015P t Weight Flag U U U U U | 1 Dil 1 1 1 1 |
| Temperature Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH | TEMP 015 Mod Cas Number PHC610 C10C28DRO PHC628 PHC628 PHC635 | 24.6 Date Prep: Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 | | Deg C F 9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW 6 Moisture: Basis: We Analysis Date 11.20.19 23.33 11.20.19 23.33 11.20.19 23.33 11.20.19 23.33 11.20.19 23.33 | 78015P t Weight Flag U U U U U U U | 1 Dil 1 1 1 1 |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id:PH03ALab Sample Id:643864-006 | | Matrix: Date Collecte | Soil d: 11.20.19 10.20 | | Date Received:11.20.19 12 Sample Depth: 2 ft | | | |
|--|------------|--------------------------|---------------------------|-------|---|-----|----------------|-----|
| Analytical Method: BTEX by EPA 80 Tech: MAB Analyst: MAB | 21B | Date Prep: | 11.20.19 14.11 | | Prep Method: % Moisture: Basis: | | 030B Weight | |
| Seq Number: 3108185 Parameter | Cas Number | Result R | L | Units | Analysis Da | ate | Flag | Dil |

| r al alleter | Cas Number | Kesuit | KL | | Units | Analysis Date | riag | Dii |
|----------------------|-------------|------------|----------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00198 | 0.00198 | | mg/kg | 11.21.19 00.11 | U | 1 |
| Toluene | 108-88-3 | < 0.00198 | 0.00198 | | mg/kg | 11.21.19 00.11 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00198 | 0.00198 | | mg/kg | 11.21.19 00.11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00198 | 0.00198 | | mg/kg | 11.21.19 00.11 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00198 | 0.00198 | | mg/kg | 11.21.19 00.11 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00198 | 0.00198 | | mg/kg | 11.21.19 00.11 | U | 1 |
| Total BTEX | | < 0.00198 | 0.00198 | | mg/kg | 11.21.19 00.11 | U | 1 |
| | | | % | | | | | |
| Surrogate | | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 112 | % | 70-130 | 11.21.19 00.11 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 99 | % | 70-130 | 11.21.19 00.11 | | |
| | | | | | | | | |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH04 Lab Sample Id: 643864-007 | | Matrix: Date Colle | Soil ected: 11.20.19 | 9 10.27 | | Date Received:11. Sample Depth: 1 ft | | 5 |
|--|---|--|--|------------------|--|---|---|------------------|
| Analytical Method: Chloride by EPA | A 300 | | | | F | Prep Method: E30 |)0P | |
| Tech: MAB | | | | | | % Moisture: | | |
| Analyst: MAB | | Date Prep | 11.20.1 | 9 16.11 | H | Basis: We | t Weight | |
| Seq Number: 3108187 | | Buterrep | | | | | 6 | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Chloride | 16887-00-6 | 15.7 | 9.98 | | mg/kg | 11.20.19 19.34 | 8 | 1 |
| | | | | | | | | |
| Analytical Method: PH By SW9045 | D | | | | | | | |
| Tech: KBU | | | | | 9 | % Moisture: | | |
| Analyst: KBU | | | | | I | Basis: We | t Weight | |
| Seq Number: 3108243 | | | | | S | SUB: T104704215 | 5-19-30 | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| pH in Water | 12408-02-5 | 8.61 | | | SU | 11.21.19 10.57 | | 1 |
| Temperature | TEMP | 24.1 | | | Deg C | 11.21.19 10.57 | + | 1 |
| | | | | | | | | |
| Analytical Method: TPH by SW801 | 5 Mod | | | | | | | |
| | JIVIOU | | | | F | Prep Method: SW | /8015P | |
| Tech: DTH | 5 Widd | | | | | Prep Method: SW 6 Moisture: | /8015P | |
| Tech: DTH Analyst: DTH | 5 WOU | Date Prep | : 11.20.19 | 9 16.30 | 9 | % Moisture: | 78015P t Weight | |
| | 5 1000 | Date Prep | : 11.20.19 | 9 16.30 | 9 | % Moisture: | | |
| Analyst: DTH | Cas Number | Date Prep Result | : 11.20.19 RL | 9 16.30 | 9 | % Moisture: | | Dil |
| Analyst:DTHSeq Number:3108192 | | | | 9 16.30 | 9 F | 6 Moisture: 3asis: We | t Weight | Dil |
| Analyst: DTH Seq Number: 3108192 Parameter | Cas Number | Result | RL | 9 16.30 | 9 H Units | 6 Moisture: Basis: We Analysis Date | t Weight Flag | |
| Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) | Cas Number PHC610 | Result <49.8 | RL 49.8 | 9 16.30 | 9 H Units mg/kg | 6 Moisture: Basis: We Analysis Date 11.20.19 23.53 | t Weight Flag U U U | 1 |
| Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO | Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | Result <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 | 9 16.30 | 9 E Units mg/kg mg/kg | 6 Moisture: Basis: We Analysis Date 11.20.19 23.53 11.20.19 23.53 11.20.19 23.53 11.20.19 23.53 | t Weight Flag U U U U U | 1 1 1 1 |
| Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) | Cas Number PHC610 C10C28DRO PHCG2835 | Result <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 | 9 16.30 | 9 E Units mg/kg mg/kg mg/kg | 6 Moisture: Basis: We Analysis Date 11.20.19 23.53 11.20.19 23.53 11.20.19 23.53 | t Weight Flag U U U | 1 1 1 |
| Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO | Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 % | 9 16.30 Units | 9 E Units mg/kg mg/kg mg/kg mg/kg | 6 Moisture: Basis: We Analysis Date 11.20.19 23.53 11.20.19 23.53 11.20.19 23.53 11.20.19 23.53 | t Weight Flag U U U U U | 1 1 1 1 |
| Analyst: DTH Seq Number: 3108192 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH | Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 | | 9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg | 6 Moisture: Basis: We Analysis Date 11.20.19 23.53 11.20.19 23.53 11.20.19 23.53 11.20.19 23.53 11.20.19 23.53 | t Weight Flag U U U U U U U | 1 1 1 1 |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Parameter | | Cas Number | Result | RL | Units | Analysis D | ate | Flag | Dil |
|--------------|-----------------------|------------|--------------|--------------------|-------|--------------------|--------|------------|-----|
| Seq Number: | 3108185 | | | | | | | | |
| Analyst: | MAB | | Date Prep: | 11.20.19 14.11 | | Basis: | Wet | Weight | |
| Tech: | MAB | | | | | % Moisture: | | | |
| Analytical M | ethod: BTEX by EPA 80 | 21B | | | | Prep Method: | SW5 | 5030B | |
| Lab Sample I | d: 643864-007 | | Date Collect | ed: 11.20.19 10.27 | | Sample Depth: 1 ft | | | |
| Sample Id: | PH04 | | Matrix: | Soil | | Date Received | d:11.2 | 0.19 12.35 | |

| | | | | | | ĩ | 0 | |
|----------------------|-------------|------------|----------|-------|--------|----------------|------|---|
| Benzene | 71-43-2 | < 0.00199 | 0.00199 | | mg/kg | 11.21.19 00.28 | U | 1 |
| Toluene | 108-88-3 | < 0.00199 | 0.00199 | | mg/kg | 11.21.19 00.28 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 11.21.19 00.28 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00199 | 0.00199 | | mg/kg | 11.21.19 00.28 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 11.21.19 00.28 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 11.21.19 00.28 | U | 1 |
| Total BTEX | | < 0.00199 | 0.00199 | | mg/kg | 11.21.19 00.28 | U | 1 |
| | | | % | | | | | |
| Surrogate | | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 111 | % | 70-130 | 11.21.19 00.28 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 92 | % | 70-130 | 11.21.19 00.28 | | |
| | | | | | | | | |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: Lab Sample I | PH04A (d: 643864-008 | | Matrix: Date Colle | Soil ected: 11.20. | 19 10.26 | Date Received:11.20.19 12.35 Sample Depth: 2 ft | | | | |
|---|---|--|---|---|-------------------|---|---|--|------------------------------|--|
| Analytical Me | ethod: Chloride by EPA | A 300 | | | | I | Prep Method: E30 | 0P | | |
| Tech: | MAB | | | | | | % Moisture: | | | |
| Analyst: | MAB | | Date Prep | · 11.20 | 19 16.11 | | | t Weight | | |
| Seq Number: | 3108187 | | Dute Trep | . 11.201 | ., | | | | | |
| Parameter | | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil | |
| Chloride | | 16887-00-6 | <9.88 | 9.88 | | mg/kg | 11.20.19 21.21 | U | 1 | |
| Analytical M | ethod: PH By SW9045 | D | | | | | | | | |
| Tech: | KBU | | | | | ç | % Moisture: | | | |
| Analyst: | KBU | | | | | I | Basis: Wet | t Weight | | |
| Seq Number: | 3108243 | | | | | S | SUB: T104704215 | -19-30 | | |
| Parameter | | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil | |
| | | | | | | | | | | |
| pH in Water | | 12408-02-5 | 8.67 | | | SU | 11.21.19 10.57 | | 1 | |
| pH in Water Temperature | | 12408-02-5 TEMP | 8.67 23.1 | | | SU Deg C | 11.21.19 10.57 11.21.19 10.57 | + | 1 1 | |
| Temperature | athody TDU by SW201 | TEMP | | | | Deg C | 11.21.19 10.57 | | | |
| Temperature Analytical Me | ethod: TPH by SW801: | TEMP | | | | Deg C | 11.21.19 10.57 Prep Method: SW | | | |
| Temperature Analytical Me Tech: | DTH | TEMP | 23.1 | 11.20 | 10.16.20 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | | |
| Temperature Analytical Me Tech: Analyst: | DTH DTH | TEMP | | : 11.20. | 19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: | | | |
| Temperature Analytical Me Tech: | DTH DTH | TEMP | 23.1 | : 11.20. RL | 19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: | 8015P | | |
| Temperature Analytical Mo Tech: Analyst: Seq Number: Parameter | DTH DTH | TEMP 5 Mod | 23.1 Date Prep | | 19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet | 8015P t Weight | 1 | |
| Temperature Analytical Mo Tech: Analyst: Seq Number: Parameter | DTH DTH 3108192 Hydrocarbons (GRO) | TEMP 5 Mod Cas Number | 23.1 Date Prep Result | RL | 19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date | 8015P t Weight Flag | 1 Dil | |
| Temperature Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range Diesel Range On | DTH DTH 3108192 Hydrocarbons (GRO) | TEMP 5 Mod Cas Number PHC610 | 23.1 Date Prep Result <49.8 | RL 49.8 | 19 16.30 | Deg C J Units mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet <u>Analysis Date</u> 11.21.19 00.12 | 8015P t Weight Flag U | 1 Dil | |
| Temperature Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range Diesel Range On | DTH DTH 3108192 Hydrocarbons (GRO) rganics (DRO) Hydrocarbons (MRO) | TEMP 5 Mod Cas Number PHC610 C10C28DRO | 23.1 Date Prep Result <49.8 <49.8 | RL 49.8 49.8 | 19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date 11.21.19 00.12 11.21.19 00.12 | 8015P t Weight Flag U U | 1 Dil 1 | |
| Temperature Analytical Ma Tech: Analyst: Seq Number: Parameter Gasoline Range On Motor Oil Range F | DTH DTH 3108192 Hydrocarbons (GRO) rganics (DRO) Hydrocarbons (MRO) | TEMP 5 Mod Cas Number PHC610 C10C28DRO PHCG2835 | 23.1 Date Prep Result <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 | 19 16.30 | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date 11.21.19 00.12 11.21.19 00.12 11.21.19 00.12 | 8015P t Weight Flag U U U U | 1 Dil 1 1 | |
| Analytical Me Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range Diesel Range Or Motor Oil Range F Total GRO-DRO | DTH DTH 3108192 Hydrocarbons (GRO) rganics (DRO) Hydrocarbons (MRO) O | TEMP 5 Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | 23.1 Date Prep Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 | 19 16.30 Units | Deg C J Units mg/kg mg/kg mg/kg mg/kg | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date 11.21.19 00.12 11.21.19 00.12 11.21.19 00.12 11.21.19 00.12 | 8015P t Weight Flag U U U U U | 1 Dil 1 1 1 1 | |
| Temperature Analytical Me Tech: Analyst: Seq Number: Parameter Gasoline Range On Motor Oil Range F Total GRO-DRO Total TPH | DTH DTH 3108192 Hydrocarbons (GRO) rganics (DRO) Hydrocarbons (MRO) O | TEMP 5 Mod Cas Number PHC610 C10C28DRO PHCG2835 PHC628 | 23.1 Date Prep Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 | RL 49.8 49.8 49.8 49.8 49.8 49.8 % | | Deg C | 11.21.19 10.57 Prep Method: SW % Moisture: Basis: Wet Analysis Date 11.21.19 00.12 11.21.19 00.12 11.21.19 00.12 11.21.19 00.12 11.21.19 00.12 | 8015P t Weight Flag U U U U U U U | 1 Dil 1 1 1 1 | |



Certificate of Analytical Results 643864

LT Environmental, Inc., Arvada, CO

| Sample Id: PH04A Lab Sample Id: 643864-008 | | Matrix: Date Collecte | Soil ed: 11.20.19 10.26 | _ | Date Received:11.20.19 12 Sample Depth: 2 ft | | |
|--|------------|--------------------------|----------------------------|-------|---|------------|-----|
| Analytical Method: BTEX by EPA Tech: MAB | A 8021B | | | | rep Method: Moisture: | SW5030B | |
| Analyst: MAB Seq Number: 3108185 | | Date Prep: | 11.20.19 14.11 | | | Wet Weight | |
| Parameter | Cas Number | Result H | RL . | Units | Analysis Da | te Flag | Dil |

| Parameter | Cas Number | e Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 11.21.19 00.46 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 11.21.19 00.46 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 11.21.19 00.46 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00200 | 0.00200 | | mg/kg | 11.21.19 00.46 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 11.21.19 00.46 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 11.21.19 00.46 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 11.21.19 00.46 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 115 | % | 70-130 | 11.21.19 00.46 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 100 | % | 70-130 | 11.21.19 00.46 | | |
| | | | | | | | | |



Flagging Criteria

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

| SMP Clie | ent Sample | BLK | Method Blank | |
|----------|---------------------------------------|-----------|-----------------------------|---------------------------------|
| BKS/LCS | Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labor | ratory Control Sample Duplicate |
| MD/SD | Method Duplicate/Sample Duplicate | MS | Matrix Spike | MSD: Matrix Spike Duplicate |

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Los Medanos 36-23-30 State#703H

| Analytical Method: | Chloride by EPA 3 | 00 | | | | | | Pr | ep Metho | d: E300 | 0 P | |
|--------------------|-------------------|-----------------|---------------|-------------|----------------|--------------|--------|------|----------|----------|------------------|------|
| Seq Number: | 3108187 | | | Matrix: | Solid | | | | Date Pre | p: 11.2 | 0.19 | |
| MB Sample Id: | 7690830-1-BLK | | LCS Sar | nple Id: | 7690830- | 1-BKS | | LCSI | O Sample | Id: 7690 |)830-1-BSD | |
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limi | t Units | Analysis Date | Flag |
| Chloride | <10.0 | 250 | 249 | 100 | 251 | 100 | 90-110 | 1 | 20 | mg/kg | 11.20.19 18:23 | |

| Analytical Method: | Chloride by EPA 3 | 00 | | | | | | Pr | ep Metho | od: E30 | 0P | |
|--------------------|-------------------|-----------------|---------------|------------|---------------|-------------|--------|------|----------|----------|------------------|------|
| Seq Number: | 3108187 | | | Matrix: | Soil | | | | Date Pre | ep: 11.2 | 0.19 | |
| Parent Sample Id: | 643862-001 | | MS Sample Id: | | | 01 S | | MSI | O Sample | Id: 643 | 362-001 SD | |
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limi | it Units | Analysis Date | Flag |
| Chloride | 995 | 196 | 1140 | 74 | 1160 | 83 | 90-110 | 2 | 20 | mg/kg | 11.20.19 19:59 | Х |

| Analytical Method: | Chloride by EPA 30 |)0 | | | | | | P | rep Metho | od: E30 | 0P | |
|--------------------|--------------------|-----------------|--------------|------------|---------------|-------------|--------|------|-----------|-----------|------------------|------|
| Seq Number: | 3108187 | | | Matrix: | Soil | | | | Date Pre | ep: 11.2 | 0.19 | |
| Parent Sample Id: | 643864-001 | | MS Sar | nple Id: | 643864-00 | 01 S | | MS | D Sample | e Id: 643 | 864-001 SD | |
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Lim | it Units | Analysis Date | Flag |
| Chloride | <9.90 | 198 | 207 | 105 | 207 | 104 | 90-110 | 0 | 20 | mg/kg | 11.20.19 18:41 | |

| Analytical Method: Seq Number: Parent Sample Id: | PH By SW9045D 3108243 643531-003 | Matrix: MD Sample Id: | Product 643531-003 D | | | | | |
|--|---|--------------------------|-------------------------|--------|-----------|-------------|----------------------------------|------|
| Parameter | Parent Result | MD Result | | %RPD | RPD Limit | Units | Analysis Date | Flag |
| pH in Water Temperature | 9.55 23.6 | 9.56 23.6 | | 0 0 | 20 25 | SU Deg C | 11.21.19 10:57 11.21.19 10:57 | |

| Analytical Method: | PH By SW9045D | | | | | | | |
|--------------------------|---------------|---------------|--------------|--------|-----------------|----------|----------|------|
| Seq Number: | 3108243 | Matrix: | Soil | | | | | |
| Parent Sample Id: | 643864-001 | MD Sample Id: | 643864-001 D | | | | | |
| _ | Parent | MD | | %RPD | RPD Limi | it Units | Analysis | |
| Parameter | Result | Result | | /014 D | | | Date | Flag |
| Parameter pH in Water | | | | 0 | 20 | SU | • | Flag |

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

Final 1.000



Los Medanos 36-23-30 State#703H

| Analytical Method: Seq Number: | 3108192 | | od | LCS Sar | Matrix: | Solid 7690829- | | | | Prep Method Date Prep | p: 11.2 | 8015P 20.19 2829-1-BSD | |
|-----------------------------------|-----------|------------|-----------------|---------|---------|-------------------|--------------|--------|-------|--------------------------|---------|------------------------------|------|
| MB Sample Id: | 7690829-1 | -BLK MB | Cuil to | LCS Sa | LCS | | | Limits | | • RPD Limit | | Analysis | |
| Parameter | | Result | Spike Amount | Result | %Rec | LCSD Result | LCSD %Rec | Linns | 70KFL | FID Linin | Units | Date | Flag |
| Gasoline Range Hydrocarbo | ons (GRO) | < 50.0 | 1000 | 813 | 81 | 787 | 79 | 70-135 | 3 | 35 | mg/kg | 11.20.19 16:34 | |
| Diesel Range Organics (| (DRO) | <50.0 | 1000 | 947 | 95 | 917 | 92 | 70-135 | 3 | 35 | mg/kg | 11.20.19 16:34 | |
| Surrogate | | MB %Rec | MB Flag | | | LCS Flag | LCSI %Re | | - | Limits | Units | Analysis Date | |
| 1-Chlorooctane | | 93 | | 1 | 01 | | 99 | | 5 | 70-135 | % | 11.20.19 16:34 | |
| o-Terphenyl | | 96 | | Ģ | 98 | | 96 | | 7 | 70-135 | % | 11.20.19 16:34 | |

| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8 | 015P | |
|---------------------------|-------------------|---------------|---------------|--------------|-------|------------------|------|
| Seq Number: | 3108192 | Matrix: | Solid | Date Prep: | 11.20 |).19 | |
| | | MB Sample Id: | 7690829-1-BLK | | | | |
| Parameter | | MB Result | | U | nits | Analysis Date | Flag |
| Motor Oil Range Hydrocarl | oons (MRO) | <50.0 | | m | g/kg | 11.20.19 16:14 | |

| Analytical Method: Seq Number: | 3108192 | | od | | Matrix: | Soil 643861-00 | 01 S | | | Prep Method Date Prep SD Sample 1 | p: 11.2 | 8015P 0.19 861-001 SD | |
|-----------------------------------|-----------|------------------|-----------------|------------------------|------------|-------------------|-------------|--------|----|---|---------|-----------------------------|------|
| Parent Sample Id: Parameter | 643861-00 | Parent Result | Spike Amount | MS Sal MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | | RPD Limit | | Analysis Date | Flag |
| Gasoline Range Hydrocarbo | | <50.0 | 999 | 1110 | 111 | 897 | 90 | 70-135 | 21 | 35 | mg/kg | 11.20.19 17:36 | |
| Diesel Range Organics (| (DRO) | <50.0 | 999 | 1290 | 129 | 1050 | 105 | 70-135 | 21 | 35 | mg/kg | 11.20.19 17:36 | |
| Surrogate | | | | | 1S Rec | MS Flag | MSD %Re | | - | Limits | Units | Analysis Date | |
| 1-Chlorooctane | | | | 1 | 31 | | 131 | | 7 | 0-135 | % | 11.20.19 17:36 | |
| o-Terphenyl | | | | 1 | 28 | | 116 | | 7 | 0-135 | % | 11.20.19 17:36 | |

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

Final 1.000



Los Medanos 36-23-30 State#703H

| Analytical Method: Seq Number: MB Sample Id: | BTEX by EPA 802 3108185 7690825-1-BLK | B | LCS Sar | Matrix: nple Id: | Solid 7690825- | 1-BKS | | | Prep Metho Date Pre SD Sample | p: 11.2 | 5030B 0.19 0825-1-BSD | |
|---|--|-----------------|---------------|---------------------|-------------------|--------------|--------|------|-------------------------------------|---------|-----------------------------|------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPE | RPD Limit | t Units | Analysis Date | Flag |
| Benzene | < 0.00200 | 0.100 | 0.0980 | 98 | 0.0920 | 92 | 70-130 | 6 | 35 | mg/kg | 11.20.19 15:30 | |
| Toluene | < 0.00200 | 0.100 | 0.0890 | 89 | 0.0838 | 84 | 70-130 | 6 | 35 | mg/kg | 11.20.19 15:30 | |
| Ethylbenzene | < 0.00200 | 0.100 | 0.0967 | 97 | 0.0910 | 91 | 71-129 | 6 | 35 | mg/kg | 11.20.19 15:30 | |
| m,p-Xylenes | < 0.00200 | 0.200 | 0.191 | 96 | 0.180 | 90 | 70-135 | 6 | 35 | mg/kg | 11.20.19 15:30 | |
| o-Xylene | < 0.00200 | 0.100 | 0.0945 | 95 | 0.0891 | 89 | 71-133 | 6 | 35 | mg/kg | 11.20.19 15:30 | |
| Surrogate | MB %Rec | MB Flag | | | LCS Flag | LCSD %Rec | | - | Limits | Units | Analysis Date | |
| 1,4-Difluorobenzene | 102 | | 1 | 02 | | 100 | | 7 | 70-130 | % | 11.20.19 15:30 | |
| 4-Bromofluorobenzene | 107 | | 1 | 00 | | 98 | | 7 | 70-130 | % | 11.20.19 15:30 | |

| Analytical Method: Seq Number: Parent Sample Id: | BTEX by EPA 802 3108185 643861-001 | 1B | | Matrix: nple Id: | Soil 643861-00 | 01 S | | | Prep Methoo Date Prej SD Sample | p: 11.2 | 5030B 20.19 861-001 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 | 0.0736 | 74 | 0.0943 | 94 | 70-130 | 25 | 35 | mg/kg | 11.20.19 17:49 | |
| Toluene | < 0.00200 | 0.100 | 0.0694 | 69 | 0.0879 | 88 | 70-130 | 24 | 35 | mg/kg | 11.20.19 17:49 | Х |
| Ethylbenzene | < 0.00200 | 0.100 | 0.0757 | 76 | 0.0960 | 96 | 71-129 | 24 | 35 | mg/kg | 11.20.19 17:49 | |
| m,p-Xylenes | < 0.00200 | 0.200 | 0.151 | 76 | 0.191 | 96 | 70-135 | 23 | 35 | mg/kg | 11.20.19 17:49 | |
| o-Xylene | < 0.00200 | 0.100 | 0.0743 | 74 | 0.0936 | 94 | 71-133 | 23 | 35 | mg/kg | 11.20.19 17:49 | |
| Surrogate | | | | IS Rec | MS Flag | MSD %Rec | | | Limits | Units | Analysis Date | |
| 1,4-Difluorobenzene | | | 9 | 99 | | 99 | | 7 | 0-130 | % | 11.20.19 17:49 | |
| 4-Bromofluorobenzene | | | 1 | 03 | | 101 | | 7 | /0-130 | % | 11.20.19 17:49 | |

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

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| 300 North A Street Address 3104 E Greene St State of Project: 1320 26-3849 Email: Smith@llenv.com. Garlsbad, MM 88220 Reporting Level IP Noreables: EDD DepT 122 26-3849 Email: Smith@llenv.com. drois@llenv.com ADapT DepT DepT | × 1021 | | | |
| Convertices State of Project: 300 outh A Street Email Email State of Project: State of Project: response Site of Project: City, State ZIP, Carlsbad, NM 88220 Reporting Level IP Level IP PSTU C30 Address Site of Project: Reporting Level IP Level IP Level IP PSTU C30 Address No Temp Blank Carlsbad, NM 88220 Address: ADapTI C12 C1 C1 C1 C2 C1 Rustine: Imamonid Image: Adapts Adapts Pate No Thermoneter ID No No Image: Adapts Adapts Total Containers: Sampled No Optic Sampled No Image: Image: </td <td>Leul</td> <td>4</td> <td></td> <td>HOL</td> | Leul | 4 | | HOL |
| 300 North A Street Address 104 E Greene St 104 E Greene St State of Project: 12/256-3849 Email: fsmith@ltenv.com. dmis220 Image: City, State ZP. Carlsbad, NM 88220 State of Project: Reporting:Level P PSIU 12/256-3849 Email: fsmith@ltenv.com. dmis220 Image: City, State ZP. Correction State of Project: Reporting:Level P PSIU 12/256-3849 Turm Around Turm Around Turm Around Turn Around Image: City, State ZP. Adapti 12/261-00-7 Fatima Smith Due Date: Turm Around Turm Around Turn Around Image: City, State ZP. Adapti 1 No Tremp Blank Motorection Factor: -00-7 <td>1020</td> <td>3A 1021</td> <td>3A</td> <td>OH03A</td> | 1020 | 3A 1021 | 3A | OH03A |
| Conversion of c | 1021 | 3 1021 | | DHO3 |
| Convertion: Convertion: State of Project: 300 North A Street Address: 3104 E Greene St State of Project: 3101 Contract, TX 79705 Email: Smith@llenv.com Greene St Reporting Level II, 3102 Contract, TX 79705 Email: Smith@llenv.com dmoir@llenv.com Me8220 3102 Contract, TX 79705 Email: Smith@llenv.com dmoir@llenv.com Deliverables: C12 G1 G0 G3 State of Project: Reporting Level II, Level II, Poil C12 G1 G0 G3 Fatima Smith Due Date: Fatima Smith Due Date: Fatima Smith Due Date: Fatima Smith Fatima Smith Fatima Smith Due Date: Fatima Smith Fatima Smith <td< td=""><td>1014</td><td>2A 101</td><td>ZA</td><td>PHOZA</td></td<> | 1014 | 2A 101 | ZA | PHOZA |
| Convertion Name Convertion Name State of Project: 300 North A Street Address: 3104 E Greene St Reporting Level IP Reporting Level IP Project: Reporting Level IP Reporting L | 1015 | 2 1015 | 2 | H02 |
| OUNDUM VIEW, INC. OUNDUM A Street Address: State of Project: 300 North A Street Email: State SIP: Carlsbad, NM 88220 State of Project: Reporting:Level II, PST/L 1422) 236-3849 Email: State SIP: Carlsbad, NM 88220 Devel II, PST/L No Reporting:Level II, PST/L OLIZ-GI IGOG State SIM Routine: Rush: 2 days Address: ADapTi Fatima Smith Due Date: Rush: 2 days No AnaLysis REQUEST ADapTi Ves No Thermometer IID No Thermometer ID ADapTi Ves No Total Containers: No No ADapTi Ves No Total Containers: No ADapTi Ves No Total Containers: No ADapTi Ves No Thermometer ID ADapTi ADapTi Interview Date Time ADapTi ADapTi Ves No Total Containers: ADapTi ADapTi Ves Na Total Containers: ADapTi ADapTi <td>1006</td> <td>1A 1000</td> <td>A</td> <td>HOIA</td> | 1006 | 1A 1000 | A | HOIA |
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| In Environmentation Consider site Address: 3104 E Greene St State of Project: 300 North A Street City, State ZIP: Carlsbad, NM 88220 State of Project: 132) 236-3849 Email: fsmith@ltenv.com, dmoir@ltenv.com Reporting:Level IP 132) 236-3849 Email: fsmith@ltenv.com, dmoir@ltenv.com Reporting:Level IP 132) 236-3849 Email: fsmith@ltenv.com, dmoir@ltenv.com Reporting:Level IP 132) 236-3849 Failina Smith Turn Around ADaPTI 132) 236-3849 Routine: Imail: State of Project: 132) 236-3849 Turn Around ADaPTI Deliverables: EDD ADaPTI 132 Carys Routine: Imail: State of Project: ADaPTI 132 Carys Routine: Imail: State of Project: ADaPTI 132 Carys Routine: Imail: State of Project: ADaPTI 133 Deliverables: ED ADaPTI ADaPTI Imail: 133 No Thermometer ID Imail: Imail: Imail: Imail: 134 Imail: Imail: Imail: Imail: Imail: Imail: Imail: 134 Imail: Imail: </td <td>rix Date Time Sampled Sampled</td> <td>Matrix Date Sampled</td> <td>Matrix</td> <td>Sample Identification</td> | rix Date Time Sampled Sampled | Matrix Date Sampled | Matrix | Sample Identification |
| Instrumental street Address: 3104 E Greene St State of Project: 3300 North A Street Address: 3104 E Greene St State of Project: Midland, TX 79705 Email: fsmith@ltenv.com Moligene St (42) 236-3849 Email: fsmith@ltenv.com dmoir@ltenv.com (42) 236-3849 Falima Smith Routine: AnaLYSIS REQUEST (12) G No Wet loce: No No (12) G No Wet loce: No No (12) G No Wet loce: No No (13) 0.0) (14) 0.0 (15) 0.0 (15) 0.0 (15) 0.0 | NIA | Yes No N/A | Yes No N/A | Sample Custody Seals: Y |
| O.North A Street Address: 3104 E Greene St State of Project: Iand, TX 79705 Email: Smith@ltenv.com, dmoir@ltenv.com State of Project: 2) 236-3849 Email: Smith@ltenv.com, dmoir@ltenv.com Deliverables: EDD ADaPT 2) 236-3849 Email: Smith@ltenv.com, dmoir@ltenv.com ADaPT Other: 2) 236-3849 Email: Smith@ltenv.com, dmoir@ltenv.com Deliverables: EDD ADaPT 2) 236-3849 Turn Around Vork Orthon: No ADaPT Other: 2) 236-3849 Turn Around Vork Orthon: No Mork Orthon: Mork Orthon: 2) 236-30 Wet Ice: Image: Tege No No Yes No Wet Ice: Image: Tege No 1 Thermometer ID Thermometer ID Image: Tege No | NIA | Yes No NIA | Yes No NIA | Cooler Custody Seals: Y |
| ONorth A Street Address: 3104 E Greene St State of Project: land, TX 79705 City, State ZIP: Carlsbad, NM 88220 State of Project: 2) 236-3849 Email: Ismith@ltenv.com, dmoir@ltenv.com Reporting:Level IP Level IP PST/USF 2) 236-3849 Email: Ismith@ltenv.com, dmoir@ltenv.com Male Size Deliverables: EDD ADaPT Other: 2) 236-3849 Email: Ismith@ltenv.com, dmoir@ltenv.com ANALYSIS REQUEST Work Or DI2_9119_0 Rush: 2 days Rush: 2 days Mork Or Mork Or Fatima Smith Due Date: Image: No Ima | T-MA- | No | | Received Intact: |
| Innovinienter, inc., romen on perigram Comparigram Comparigram State of Project: Iand, TX 79705 City, State ZIP: Carisbad, NM 88220 State of Project: 2)236-3849 Email: Ismith@ltenv.com, dmoir@ltenv.com Reporting:Level III PST/USF 2)236-3849 Email: Ismith@ltenv.com, dmoir@ltenv.com Dilverables: EDD ADaPT Other: 2)236-3849 Email: Ismith@ltenv.com, dmoir@ltenv.com ANALYSIS REQUEST Work Or DI2_9190 Rush: 2 days Image: Comparison of the part of | Thermometer ID | 1.2 | 6. | Temperature (°C): |
| Inter, i viriulini Criticy Address: 3104 E Greene St State of Project: Email: Ismith@ltenv.com, dmoir@ltenv.com Carlsbad, NM 88220 State of Project: Email: Ismith@ltenv.com, dmoir@ltenv.com Deliverables: EDD ADaPT Other: 0:-23 - 30_strates Routine: Image: Carlsbad, NM 88220 NALYSIS REQUEST Work Origination of the strategy of | Hos No Wet Ice: 1 | Temp Blank: Kes No | Temp Blank: | SAMPLE RECEIPT |
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| at Address: 3104 E Greene St State of Project: city, State ZIP: Carisbad, NM 88220 Reporting:Level III Email: Ismith@ltenv.com, dmoir@ltenv.com Deliverables: Log Turn Around AnALYSIS REQUEST Work Orr | _0 | -5439 | 1 | |
| st Address: 3104 E Greene St State of Project: clity, State ZIP: Carlsbad, NM 88220 Reporting:Level III Level IIII PST/USF TrRfb Email: fsmith@ltenv.com, dmoir@ltenv.com ANALYSIS REQUEST Vork Or | OGS Ro | 093 | 01291909 | er: |
| Inter, i orman Onco Occupany varia Art C arcogy me. st Address: 3104 E Greene St City, State ZIP: Carlsbad, NM 88220 Email: [smith@ltenv.com, dmoir@ltenv.com] | 36-23-30=state | 36-23-30= | Los medianos 36-23 | Project Name: Los n |
| Inc., I online on Company relice And ress: 3104 E Greene St State of Project: Image: State of Project: City, State ZIP: Carlsbad, NM 88220 Reporting:Level IP: Level IP: PST/USF TRRP | Email: 15 | | (432) 236-3849 | (432) 23 |
| Address: 3104 E Greene St State of Project: | | Midland, TX 79705 | Midland, TX 79705 | City, State ZIP: Midland |
| | | 3300 North A Street | 3300 North A Street | Address: 3300 Nc |
| IT Environmental Inc. Dermian Office Company Name: XTO Energy Inc. Program: UST/PST PRP Brownfields RRC Superfund | | LT Environmental, Inc., Permian Office | LT Environmental, Inc., I | Company Name: LT Envi |
| | Bi | | Dan Moir | Project Manager: Dan Mo |

XENCO

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, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900

Chain of Custody

Work Order No: 1243 Suy

Inter-Office Shipment

.

IOS Number : 52737

| Date/Time Lab# From Lab# To: | | Created by: Delivery Prior Air Bill No.: | Elizabeth M ity: 777039729 | | Please send report to: Address: E-Mail: | Jessica Kram 1089 N Cana jessica.krame | l Street | com | |
|------------------------------------|-------------------------|--|----------------------------------|---------------|---|--|----------|----------|------|
| Sample Id | Matrix Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | РМ | Analytes | Sign |
| 643864-001 | S PH01 | 11.20.2019 10:07 S | W9045D | PH By SW9045D | 11.21.2019 | 12.18.2019 | JKR | | |
| 643864-002 | S PH01A | 11.20.2019 10:06 S | W9045D | PH By SW9045D | 11.21.2019 | 12.18.2019 | JKR | | |
| 643864-003 | S PH02 | 11.20.2019 10:15 S | W9045D | PH By SW9045D | 11.21.2019 | 12.18.2019 | JKR | | |
| 643864-004 | S PH02A | 11.20.2019 10:14 S | W9045D | PH By SW9045D | 11.21.2019 | 12.18.2019 | JKR | | |
| 643864-005 | S PH03 | 11.20.2019 10:21 S | W9045D | PH By SW9045D | 11.21.2019 | 12.18.2019 | JKR | | |
| 643864-006 | S PH03A | 11.20.2019 10:20 S | W9045D | PH By SW9045D | 11.21.2019 | 12.18.2019 | JKR | | |
| 643864-007 | S PH04 | 11.20.2019 10:27 S | W9045D | PH By SW9045D | 11.21.2019 | 12.18.2019 | JKR | | |
| 643864-008 | S PH04A | 11.20.2019 10:26 S | W9045D | PH By SW9045D | 11.21.2019 | 12.18.2019 | JKR | | |

Inter Office Shipment or Sample Comments:

Relinquished By:

•

Elizabeth McClellan

Date Relinquished: 11.20.2019

| Received By: | Almk |
|----------------|----------------|
| | Ashly Kowalski |
| Date Received: | _11.21.2019 |

Cooler Temperature: 2.0

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston IOS #: 52737

Contact:

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : HOU-068

| Sent By: | Elizabeth McClellan | Date Sent: | 11.20.2019 02.14 PM |
|--------------|---------------------|----------------|---------------------|
| Received By: | Ashly Kowalski | Date Received: | 11.21.2019 09.30 AM |

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

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

NonConformance:

Corrective Action Taken:

| Nonconformance Documentation | | | |
|------------------------------|----------------|-------|--|
| | Contacted by : | Date: | |
| | | | |

Checklist reviewed by:

| Ashly | Kowalski |
|-------|----------|

Date: 11.21.2019



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 11/20/2019 12:35:00 PM Temperature Measuring device used : T-NM-007 Work Order #: 643864 Sample Receipt Checklist Comments

| #1 *Temperature of cooler(s)? | 1.2 | |
|---|-----|----------------------|
| #2 *Shipping container in good condition? | Yes | |
| #3 *Samples received on ice? | Yes | |
| #4 *Custody Seals intact on shipping container/ cooler? | 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)? | Yes | PH Subbed to Houston |
| #18 Water VOC samples have zero headspace? | N/A | |

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

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Checklist completed by:

 Elizabeth McClellan

 Checklist reviewed by:
 Jessica Kramer

Date: 11/20/2019

Date: 11/21/2019