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	NRM2028336147
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.15563 Longitude -103.78444
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 303 CTB	Site Type Central Tank Battery
Date Release Discovered 9/26/2020	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
N	4	25S	31E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 260.43	Volume Recovered (bbls) 260
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A valve failed to open causing the flange gasket to fail releasing fluids into lined containment and onto ground surface. A third party contractor will be retained for all remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM2028336147
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A release of fluids greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Kyle Littrell to 'Bratcher, Mike, EMNRD'; 'Hamlet, Robert, EMNRD'; 'Venegas, Victoria, EMNRD'; 'Griswold, Jim, EMNRD'; 'BLM_NM_CFO_Spill@blm.gov'; 'Morgan, Crisha A' on Sunday, September 27, 2020 10:17 AM via email.	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Kyle Littrell
Title: SH&E Supervisor
Signature:
Date: 10-9-20
email: Kyle_Littrell@xtoenergy.com
Telephone: 432-221-7331

OCD Only

Received by: Ramona Marcus
Date: 10/09/2020

NRM2028336147

Location:	**PLU 303 CTB**	
Spill Date:	**9/26/2020**	

Area 1		
Approximate Area =	166.00	sq. ft.
Average Saturation (or depth) of spill =	5.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Produced Water =	0.37	bbls

Area 2		
Approximate Area =	1128.00	sq. ft.
Average Saturation (or depth) of spill =	0.13	inches

Average Porosity Factor =	0.03	

VOLUME OF LEAK		
Total Produced Water =	0.06	bbls

Area 3		
Approximate Area =	1459.80	cu. ft.
Average Saturation (or depth) of spill =	0.00	inches

Average Porosity Factor =	0.00	

VOLUME RECOVERED		
Total Produced Water =	260.00	bbls
TOTAL VOLUME OF LEAK		
Total Produced Water =	**260.43**	**bbls**
TOTAL VOLUME RECOVERED		
Total Produced Water =	**260.00**	**bbls**

State of New Mexico
Oil Conservation Division

Incident ID	NRM2028336147
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2028336147
District RP	
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 12/17/2020

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

OCD Only

Received by: Cristina Eads Date: 12/23/2020

Incident ID	NRM2028336147
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☒ Description of remediation activities

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 12/17/2020

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

OCD Only

Received by: Cristina Eads Date: 12/23/2020

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

Closure Approved by: Date: 04/08/2021

Printed Name: Cristina Eads Title: Environmental Specialist

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

December 21, 2020

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: Closure Request
PLU 303 CTB
Incident Number NRM2028336147
Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP). (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Poker Lake Unit (PLU) 303 CTB (Site) in Unit N, Section 4, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and results of the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NRM2028336147.

RELEASE BACKGROUND

On September 26, 2020, a valve failed to open causing the flange gasket to fail and resulting in the release of 260.43 barrels (bbls) of produced water onto the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, approximately 260 bbls of produced water were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on September 27, 2020. A Release Notification and Corrective Action Form (Form C-141) was submitted on October 9, 2020 and was assigned Incident Number NRM2028336147.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) well 321034103465501, located approximately 1.5 miles north of the Site. The groundwater well has a reported depth to groundwater of 474 feet bgs and a total depth of 740 feet bgs. Within a 3-

mile radius there are 6 groundwater wells that indicate regional depth to water is greater than 350 feet bgs. The second closest groundwater well with data is USGS well 320952103444401, located approximately 2.4 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 406 feet bgs and the total depth is unknown, depth to water was last measured in January 1998. The closest New Mexico Office of the State Engineer (NMOSE) groundwater well is C-03891, located 2.5 miles west of the Site. The groundwater well has a reported depth to groundwater of 429 feet bgs and a total depth of 635 feet bgs, depth to water was most recently measured in November 2015.

During October 2020, in an effort to confirm depth to water in the area, a borehole (C-4479) was advanced to a depth of 110 feet bgs via truck-mounted hollow stem auger. The borehole was located approximately 3,585 feet northwest of the Site. The location of borehole BH01 (C-4479) is provided on Figure 1. A WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. On October 13, 2020, after the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned utilizing hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Attachment 1. Depth to water data are available in every direction surrounding the Site and indicate depth to water is greater than 100 feet. The available data consistently exceed 300 feet and 400 feet in depth, with no data points less than 318 feet.

The closest continuously flowing water or significant watercourse to the Site is an emergent wetland, located approximately 1 mile south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On October 1, 2020, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected three preliminary assessment soil samples (SS01 through SS03) within the release extent, from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples 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 Positing System (GPS) and are presented on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, and method of analysis and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SS01 and SS02. Laboratory analytical results indicated that chloride concentrations exceeded the Closure Criteria in preliminary soil sample SS03. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between October 26, 2020 and November 24, 2020, WSP personnel were at the Site to oversee delineation and excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples.

Boreholes BH01 through BH07 were advanced via hand auger to depths ranging from 1 foot to 4 feet bgs within and around the release extent to assess the lateral and vertical extent of impacted soil. Delineation soil samples were collected from each borehole from depths ranging from 1 foot to 4 feet bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride 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 2. The boreholes and delineation soil sample locations are presented on Figure 3. The delineation soil samples were collected, handled, and analyzed as described

above at Xenco in Carlsbad, New Mexico. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 3.

Based on field screening activities and laboratory analytical results for the preliminary and delineation soil samples, excavation activities were completed to remove the impacted soil. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to depths ranging from 0.5 feet to 1 foot bgs. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS12, FS01A, FS05A, FS06A, FS09A, and FS12A were collected from the floor of the excavation. The floor samples were collected from depths ranging from 0.5 feet to 1 foot bgs. Due to the shallow depth of the excavation, the floor samples were also representative of the excavation sidewalls. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The final excavation extent measured approximately 2,300 square feet. A total of approximately 63 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After the completion of confirmation sampling, the excavation was secured with fencing.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 and SS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil sample SS03 indicated that chloride concentrations exceeded the Closure Criteria.

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH07 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for excavation floor samples FS01A, FS02, FS03, FS04, FS05A, FS06A, FS07, FS08, FS09A, FS10, FS11, and FS12A, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for excavation floor samples FS01, FS05, FS06, FS09, and FS12 indicated that chloride concentrations initially exceeded the Closure Criteria. Additional soil was removed from these areas and subsequent floor samples FS01A, FS05A,

FS06A, FS09A, and FS12A were compliant. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 26, 2020 release of produced water. Based on the laboratory analytical results for the preliminary soil samples, impacted soil was excavated. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Results from excavation confirmation samples concluded that all impacted soil was removed. Additional samples were collected outside of the release footprint and results confirmed the extent of the release as mapped and excavated. Based on the excavation soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. As such, XTO respectfully requests NFA for Incident Number NRM2028336147.

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

Sincerely,

WSP USA Inc.

Elizabeth Naka
Assistant Consultant, Environmental Scientist

Ashley L. Ager, P.G.
Managing Director, Geologist

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

Attachments:

Figure 1 Site Location Map
Figure 2 Preliminary Soil Sample Locations

FIGURES

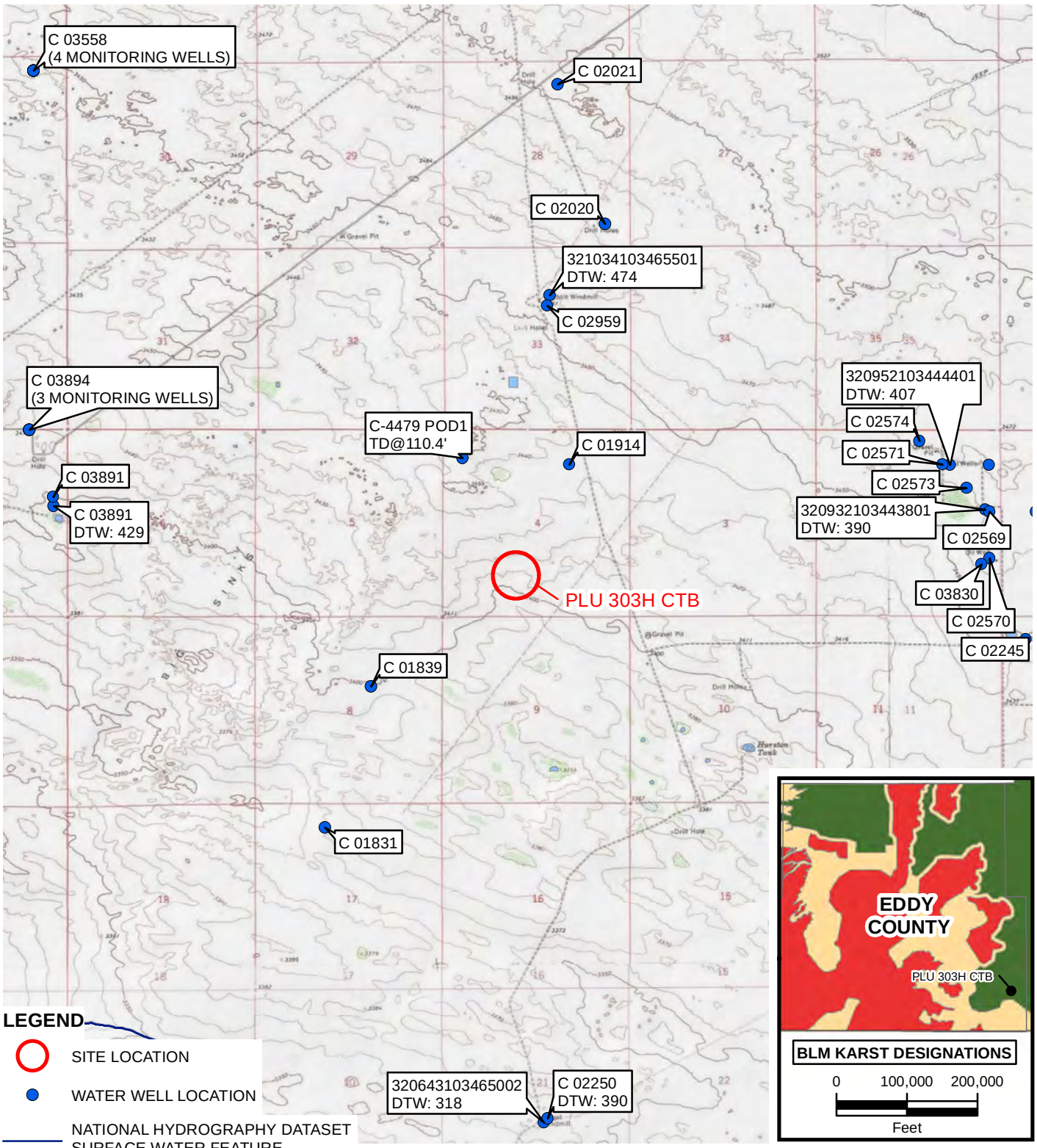
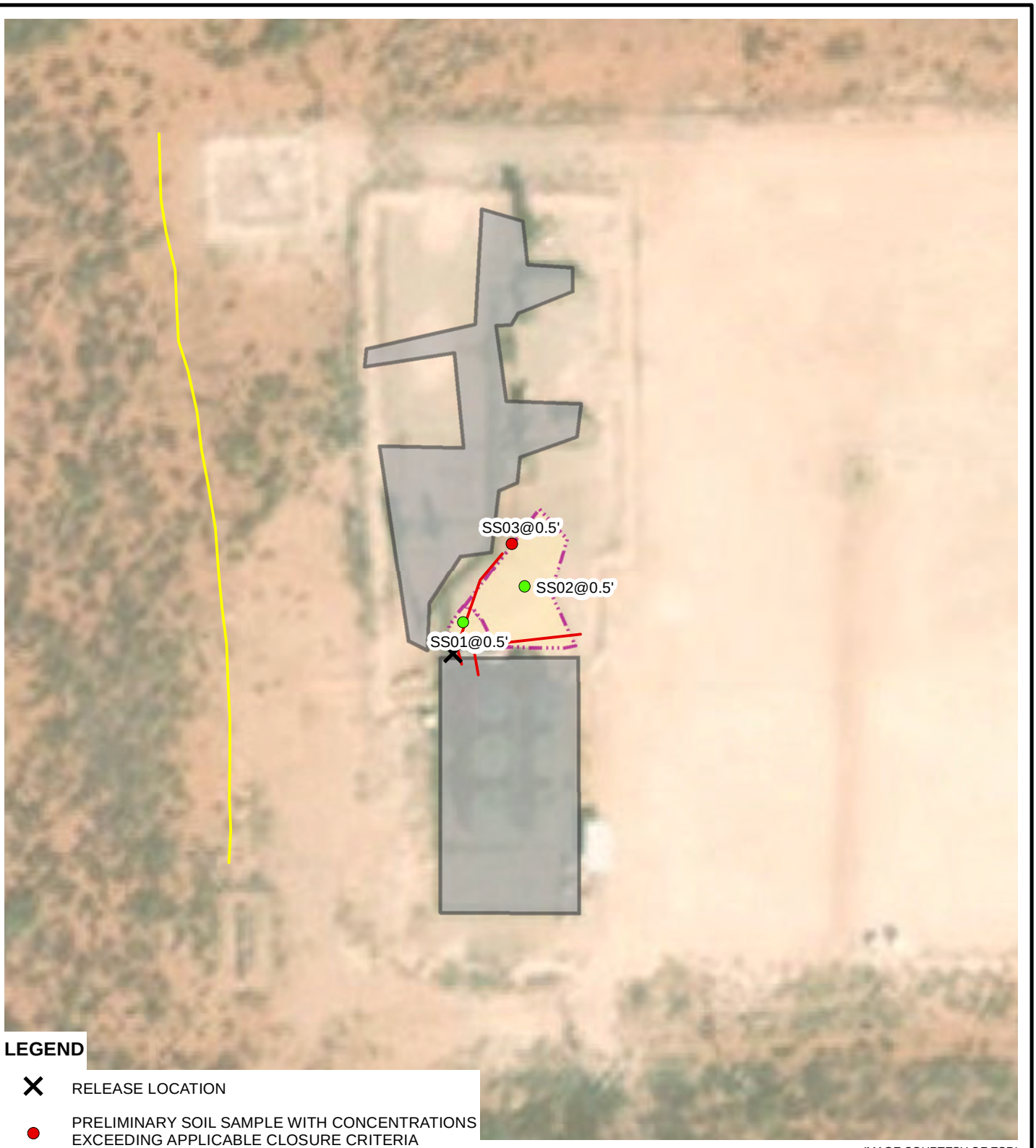


FIGURE 1
SITE LOCATION MAP
PLU 303H CTB
UNIT N SEC 4 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920144_PLU 303H CTB\012920144_FIG01_SL_RECEPTOR_2020.mxd



LEGEND

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

NOTE: INCIDENT NUMBER NRM2028336147
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

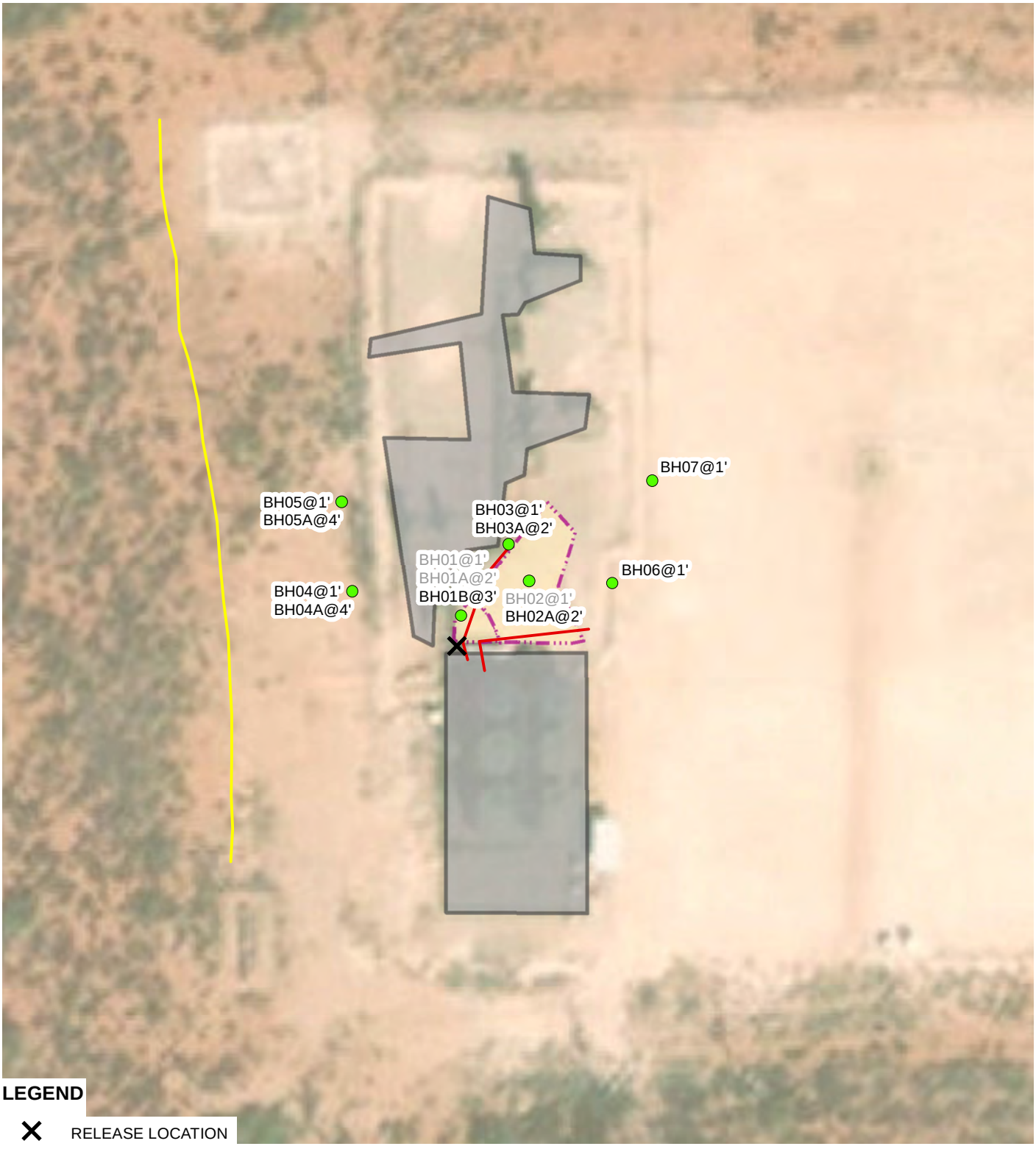
IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
PLU 303H CTB
UNIT N SEC 4 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920144_PLU 303H CTB\012920144_FIG02_PRELIMINARY_2020_1.mxd



LEGEND

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- RELEASE EXTENT
- INFRASTRUCTURE

NOTE: INCIDENT NUMBER NRM2028336147
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

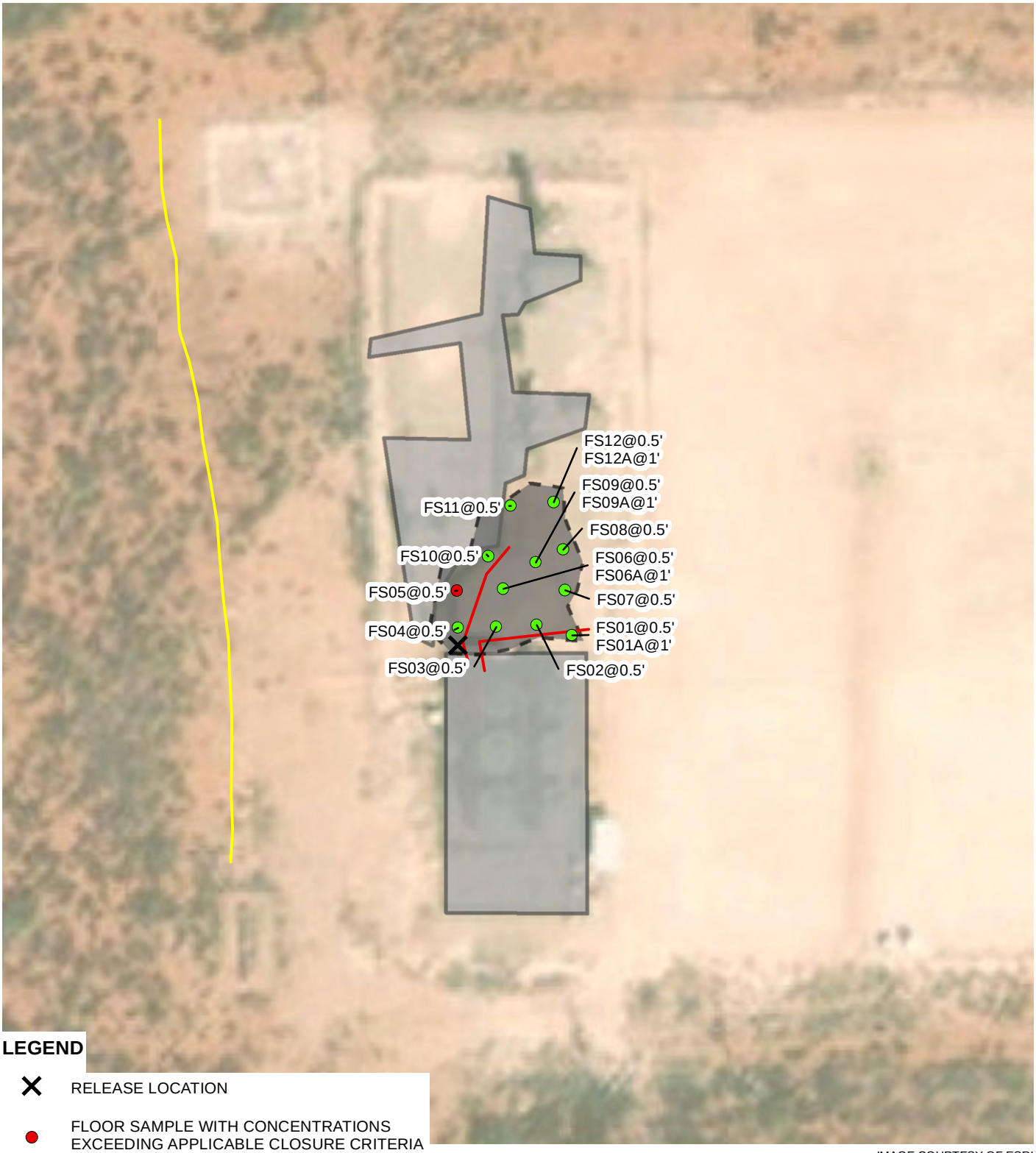
IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
PLU 303H CTB
UNIT N SEC 4 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920144_PLU 303H CTB\012920144_FIG03_DELINEATION_2020.mxd



LEGEND

- RELEASE LOCATION
- FLOOR SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- EXCAVATION EXTENT
- INFRASTRUCTURE

NOTE: INCIDENT NUMBER NRM2028336147
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 4
EXCAVATION SOIL SAMPLE LOCATIONS
POKER LAKE UNIT 303H CTB
UNIT N SEC 4 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920144_PLU 303H CTB\012920144_FIG04_EXCAVATION_2020.mxd

TABLES

Table 1

Soil Analytical Results
PLU 303 CTB
Incident Number NRM2028336147
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
Surface Samples										
SS01	10/01/2020	0.5	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	15,900
SS02	10/01/2020	0.5	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	15,300
SS03	10/01/2020	0.5	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	**21,000**
Delineation Samples										
BH01	10/26/2020	1	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	5,580
BH01A	10/26/2020	2	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	4,390
BH01B	**11/02/2020**	**3**	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	49.8
BH02	10/26/2020	1	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	196
BH02A	**10/26/2020**	**2**	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	69.9
BH03	**10/26/2020**	**1**	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	71.8
BH03A	**10/26/2020**	**2**	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	57.8
BH04	**10/26/2020**	**1**	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<9.98
BH04A	**10/26/2020**	**4**	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	88.4
BH05	**10/26/2020**	**1**	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	23.5
BH05A	**10/26/2020**	**4**	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	61.2
BH06	**10/26/2020**	**1**	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	17.1
BH07	**10/26/2020**	**1**	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	24.8
Excavation Floor Samples										
FS01	10/26/2020	0.5	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	**35,900**
FS01A	**11/02/2020**	**1**	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	5,710
FS02	**10/26/2020**	**0.5**	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	5,930

Table 1

Soil Analytical Results
PLU 303 CTB
Incident Number NRM2028336147
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
FS03	**10/26/2020**	**0.5**	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	12,300
FS04	**10/26/2020**	**0.5**	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	18,100
FS05	**10/26/2020**	**0.5**	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	**20,000**
FS05A	**11/24/2020**	**1**	<0.00200	<0.002000	<49.8	<49.8	<49.8	<49.80	<49.80	3,860
FS06	**10/26/2020**	**0.5**	<0.0000198	<0.0000198	<50.3	<50.3	<50.3	<50.3	<50.3	**21,000**
FS06A	**11/02/2020**	**1**	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	4,900
FS07	**10/26/2020**	**0.5**	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	2,270
FS08	**10/26/2020**	**0.5**	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,820
FS09	**10/26/2020**	**0.5**	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	**22,300**
FS09A	**11/02/2020**	**1**	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	8,810
FS10	**10/26/2020**	**0.5**	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	19,400
FS11	**10/26/2020**	**0.5**	<0.00200	<0.00200	81.2	<49.9	<49.9	81.2	81.2	16,400
FS12	**10/26/2020**	**0.5**	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	**20,300**
FS12A	**11/02/2020**	**1**	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	2,500

ft - feet/foot
mg/kg - milligrams per kilograms
BTEX - benzene, toluene, ethylbenzene, and total xylenes
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - motor oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard
Text impacts to soil have been removed

ATTACHMENT 1: REFERENCED WELL RECORD

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: C-4479 POD 1	Date: 10/8/2020
Site Name: PLU 147	
RP or Incident Number: NRM2004445859	
LTE Job Number: TE012920024	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: WM	Method: HAS		
Lat/Long: 32.164634,-103.789456	Field Screening: Chloride, PID	Hole Diameter: 8 1/4'	Total Depth: 110.4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0	SWSC	SAND, dry, red-brown, medium grained, well graded, few clay, no stain, no odor
						4	CCHE	CALICHE/with gravel, dry, tan-brown, poorly consolidated, no stain, no odor
						10		
						20	SWSM	SAND, moist, red-brown, some silt, well graded, medium grainded, no stain, no odor
						24	CL	CLAY, moist, maroon, cohesive, high plasticity, trace sand, no stain, no odor
						30		
						35	SPSC	SAND, moist, red, fine grained, poorly graded, some clay, no stain, no odor
						40	SWSM	SAND, moist, brown-red, large grained, well graded, few silt, no stain, no odor
						50		
						54	SWSC	SAND, moist, brown-red, medium grained, well graded, some clay, no odor, no stain
						60		
						70		
						80		
							SWSC	grain size shift to large
						90	SWSC	caliche fragments present
						100		
						110		

USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- **NOTICE 09-08-2020: The NWIS Mapper is experiencing intermittent issues. Developers are looking into the problem. Thank you for your patience.**
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321034103465501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

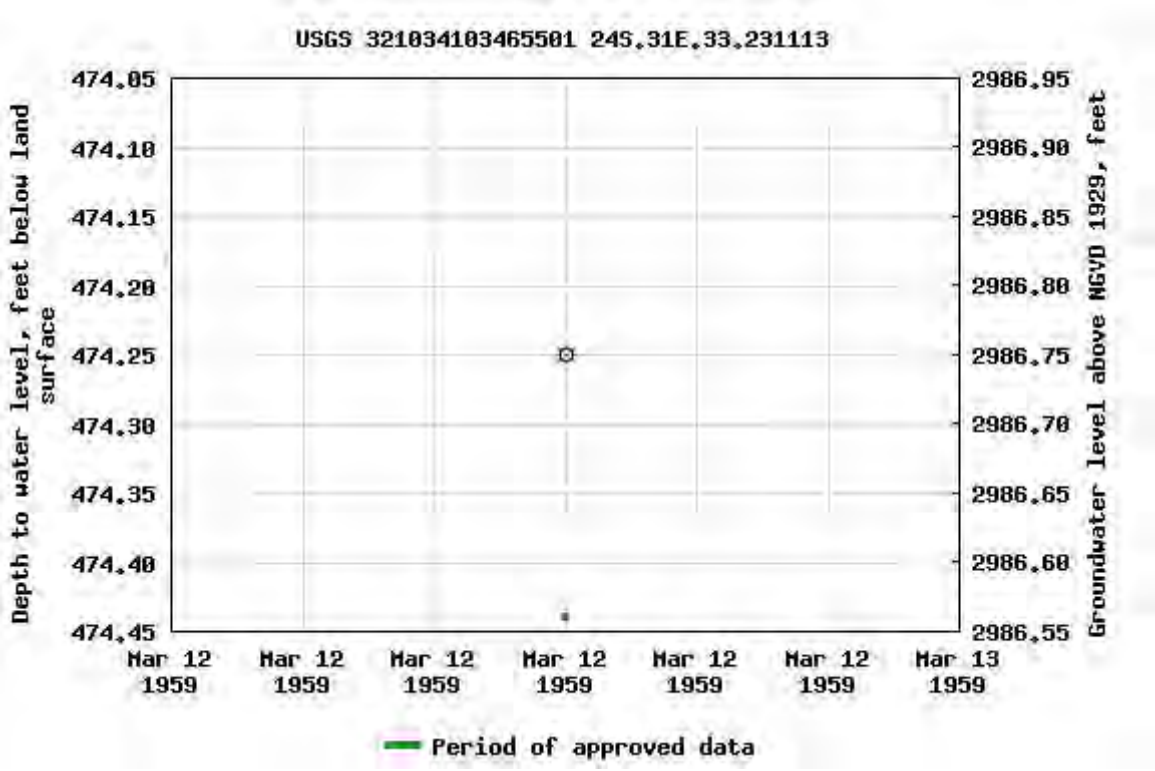
USGS 321034103465501 24S.31E.33.231113

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°10'38.2", Longitude 103°46'53.0" NAD83
Land-surface elevation 3,461.00 feet above NGVD29
The depth of the well is 740 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
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News

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-09-30 18:33:35 EDT
0.7 0.59 nadww01

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03891 POD1	4	4	2	01	25S	30E	610608	3558890

Driller License:	1723	**Driller Company:**	SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.		
Driller Name:					
Drill Start Date:	11/10/2015	**Drill Finish Date:**	11/14/2015	**Plug Date:**	
Log File Date:	12/04/2015	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	33 GPM
Casing Size:	6.13	**Depth Well:**	635 feet	**Depth Water:**	429 feet

Water Bearing Stratifications:	Top	Bottom	Description
	420	450	Sandstone/Gravel/Conglomerate
	450	460	Sandstone/Gravel/Conglomerate
	460	490	Sandstone/Gravel/Conglomerate
	490	500	Sandstone/Gravel/Conglomerate
	500	530	Sandstone/Gravel/Conglomerate
	530	635	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	460	635

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH01	10/26/20 - 11/02/20
Site Name: Poker Lake Unit 303H CTB	
RP or Incident Number: NRM2028336147	
LTE Job Number: 12920144	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By TC and EN	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 3'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
M	7,227	0.0	N	BH01		1	SU/SP	Tan/brown, moist, sandy/caliche
M	6,136	0.0	N	BH01A		2	SP/SC	Red-brown, moist
M	<180	0.0	N	BH01B		3		brown sand, moist TD @ 3'

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH02	Date: 10/26/2020
Site Name: Poker Lake Unit 303H CTB	
RP or Incident Number: NRM2028336147	
LTE Job Number: 12920144	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By TC	Method: Hand Auger		
Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
M	207	0.0	N	BH02		1	SW/SP	Tan/brown, moist, sandy/caliche
M	168	0.0	N	BH02A		2	SP/SC	Red-brown, moist, sandy TD @ 2' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH03	Date: 10/26/2020
Site Name: Poker Lake Unit 303H CTB	
RP or Incident Number: NRM2028336147	
LTE Job Number: 12920144	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By TC	Method: Hand Auger		
Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
M	672	0.0	N	BH03		1	SW/SP	Tan/brown, moist, sandy/caliche
M	425	0.0	N	BH03A		2	SP/SC	Red-brown, moist, sandy TD @ 2' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH04	Date: 10/26/2020
Site Name: Poker Lake Unit 303H CTB	
RP or Incident Number: NRM2028336147	
LTE Job Number: 12920144	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By TC	Method: Hand Auger		
Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
M	168	0.0	N	BH04		1	SP/SC	Reddish brown, moist, sandy
M	168	0.0	N			2	SP/SC	Same as above (SAA)
M	168	0.0	N			3	SP/SC	SAA
M	207	0.0	N	BH04A		4	SP/SC	SAA TD @ 4' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH05	Date: 10/26/2020
Site Name: Poker Lake Unit 303H CTB	
RP or Incident Number: NRM2028336147	
LTE Job Number: 12920144	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By TC	Method: Hand Auger		
Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	168	0.0	N	BH05		1	SW/SP	Reddish brown, tan, dry, sandy/gravel
D	207	0.0	N			2	SW/SP	Same as above (SAA)
D/M	207	0.0	N			3	SP/SC	Reddish brown, dry top, moist bottom, sandy
M	240	0.0	N	BH05A		4	SP/SC	Reddish brown, moist, sandy TD @ 4' bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH06	Date: 10/26/2020
Site Name: Poker Lake Unit 303H CTB	
RP or Incident Number: NRM2028336147	
LTE Job Number: 12920144	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By TC	Method: Hand Auger		
Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D/M	207	0.0	N	BH06		1	SW/SP	tan/brown, dry and moist, sandy TD @ 1' bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH07	10/26/2020
Site Name: Poker Lake Unit 303H CTB	
RP or Incident Number: NRM2028336147	
LTE Job Number: 12920144	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By TC	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D/M	285	0.0	N	BH07		1	SW/SP	tan/brown, dry and moist, sandy/gravel TD @ 1' bgs

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy	PLU 303 CTB Eddy County, New Mexico	NRM2028336147

Photo No.	Date
1	October 1, 2020

View of staining on pad facing West.

Photo No.	Date
2	October 1, 2020

View of staining on pad facing Northwest.

PHOTOGRAPHIC LOG		
XTO Energy	PLU 303 CTB Eddy County, New Mexico	NRM2028336147

Photo No.	Date
3	October 26, 2020

View of excavation facing Southwest.

Photo No.	Date
4	November 2, 2020

View of further excavation around FS06, FS09, and FS12 facing South.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

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Certificate of Analysis Summary 674085

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303 H CTB

Project Id: 012920144
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Thu 10.01.2020 11:33
Report Date: 10.07.2020 10:31
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	674085-001		674085-002		674085-003					
	Field Id:	SS01		SS02		SS03					
	Depth:	0.5-		0.5-		0.5-					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	10.01.2020 09:25		10.01.2020 09:30		10.01.2020 09:35					
BTEX by EPA 8021B	***Extracted:***	10.02.2020 10:14		10.02.2020 10:14		10.02.2020 10:14					
	Analyzed:	10.02.2020 20:30		10.02.2020 20:53		10.02.2020 21:15					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
m,p-Xylenes		<0.00400	0.00400	<0.00399	0.00399	<0.00404	0.00404				
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Chloride by EPA 300	***Extracted:***	10.02.2020 14:20		10.02.2020 14:20		10.02.2020 14:20					
	Analyzed:	10.02.2020 17:28		10.02.2020 17:34		10.02.2020 17:39					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		15900	200	15300	198	21000	200				
TPH by SW8015 Mod	***Extracted:***	10.02.2020 10:00		10.02.2020 10:00		10.02.2020 10:00					
	Analyzed:	10.02.2020 16:06		10.02.2020 16:26		10.02.2020 16:54					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.3	50.3	<49.8	49.8				
Diesel Range Organics (DRO)		<50.1	50.1	<50.3	50.3	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.3	50.3	<49.8	49.8				
Total GRO-DRO		<50.1	50.1	<50.3	50.3	<49.8	49.8				
Total TPH		<50.1	50.1	<50.3	50.3	<49.8	49.8				

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 674085

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303 H CTB

012920144

10.07.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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10.07.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **674085**
PLU 303 H CTB
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 Eurofins Xenco, LLC Report Number(s) 674085. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674085 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

eurofins | Environment Testing Xenco

Sample Cross Reference 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	10.01.2020 09:25	0.5	674085-001
SS02	S	10.01.2020 09:30	0.5	674085-002
SS03	S	10.01.2020 09:35	0.5	674085-003

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: LT Environmental, Inc.

Project Name: PLU 303 H CTB

Project ID: *012920144*
Work Order Number(s): *674085*

Report Date: *10.07.2020*
Date Received: *10.01.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins | Environment Testing Xenco

Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	10.01.2020 11:33
Lab Sample Id:	674085-001	Date Collected:	10.01.2020 09:25	Sample Depth:	0.5

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB
Analyst: MAB
Seq Number: 3138826

Date Prep: 10.02.2020 14:20

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15900**	200	mg/kg	10.02.2020 17:28		20

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: DTH
Analyst: DTH
Seq Number: 3138732

Date Prep: 10.02.2020 10:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.02.2020 16:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.02.2020 16:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.02.2020 16:06	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.02.2020 16:06	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.02.2020 16:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.02.2020 16:06	
o-Terphenyl	84-15-1	99	%	70-135	10.02.2020 16:06	

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Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	10.01.2020 11:33
Lab Sample Id:	674085-001	Date Collected:	10.01.2020 09:25	Sample Depth:	0.5
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.02.2020 10:14	% Moisture:	
Seq Number:	3138758			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 20:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 20:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 20:30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.02.2020 20:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 20:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 20:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 20:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.02.2020 20:30	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 20:30	

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Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	10.01.2020 11:33
Lab Sample Id:	674085-002	Date Collected:	10.01.2020 09:30	Sample Depth:	0.5

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.02.2020 14:20	% Moisture:	
Seq Number:	3138826			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15300**	198	mg/kg	10.02.2020 17:34		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	10.02.2020 10:00	% Moisture:	
Seq Number:	3138732			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.02.2020 16:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.02.2020 16:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.02.2020 16:26	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.02.2020 16:26	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.02.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.02.2020 16:26	
o-Terphenyl	84-15-1	96	%	70-135	10.02.2020 16:26	

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Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	10.01.2020 11:33
Lab Sample Id:	674085-002	Date Collected:	10.01.2020 09:30	Sample Depth:	0.5
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.02.2020 10:14	% Moisture:	
Seq Number:	3138758			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.02.2020 20:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 20:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 20:53	
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.02.2020 20:53	

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Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	10.01.2020 11:33
Lab Sample Id:	674085-003	Date Collected:	10.01.2020 09:35	Sample Depth:	0.5

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.02.2020 14:20	% Moisture:	
Seq Number:	3138826			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21000**	200	mg/kg	10.02.2020 17:39		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	10.02.2020 10:00	% Moisture:	
Seq Number:	3138732			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.02.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.02.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.02.2020 16:54	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.02.2020 16:54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.02.2020 16:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.02.2020 16:54	
o-Terphenyl	84-15-1	102	%	70-135	10.02.2020 16:54	

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Certificate of Analytical Results 674085

LT Environmental, Inc., Arvada, CO

PLU 303 H CTB

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	10.01.2020 11:33
Lab Sample Id:	674085-003	Date Collected:	10.01.2020 09:35	Sample Depth:	0.5
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.02.2020 10:14	% Moisture:	
Seq Number:	3138758			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.02.2020 21:15	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.02.2020 21:15	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.02.2020 21:15	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.02.2020 21:15	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.02.2020 21:15	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.02.2020 21:15	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.02.2020 21:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 21:15	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.02.2020 21:15	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 674085

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LT Environmental, Inc.

PLU 303 H CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3138826 — Matrix: Solid — Date Prep: 10.02.2020
MB Sample Id: 7712536-1-BLK — LCS Sample Id: 7712536-1-BKS — LCSD Sample Id: 7712536-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	250	100	251	100	90-110	0	20	mg/kg	10.02.2020 13:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3138826 — Matrix: Soil — Date Prep: 10.02.2020
Parent Sample Id: 674037-005 — MS Sample Id: 674037-005 S — MSD Sample Id: 674037-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	27.9	200	226	99	226	99	90-110	0	20	mg/kg	10.02.2020 14:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3138826 — Matrix: Soil — Date Prep: 10.02.2020
Parent Sample Id: 674037-015 — MS Sample Id: 674037-015 S — MSD Sample Id: 674037-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	123	199	311	94	312	95	90-110	0	20	mg/kg	10.02.2020 16:39	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3138732 — Matrix: Solid — Date Prep: 10.02.2020
MB Sample Id: 7712528-1-BLK — LCS Sample Id: 7712528-1-BKS — LCSD Sample Id: 7712528-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	921	92	906	91	70-135	2	35	mg/kg	10.02.2020 10:04	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	948	95	70-135	8	35	mg/kg	10.02.2020 10:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		115		111		70-135	%	10.02.2020 10:04
o-Terphenyl	90		104		96		70-135	%	10.02.2020 10:04

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3138732 — Matrix: Solid — Date Prep: 10.02.2020
MB Sample Id: 7712528-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.02.2020 13:05	

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

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QC Summary 674085

LT Environmental, Inc.

PLU 303 H CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3138732 Matrix: Soil Date Prep: 10.02.2020
Parent Sample Id: 674037-017 MS Sample Id: 674037-017 S MSD Sample Id: 674037-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	995	1030	104	1020	102	70-135	1	35	mg/kg	10.02.2020 11:25	
Diesel Range Organics (DRO)	<49.8	995	1130	114	1110	111	70-135	2	35	mg/kg	10.02.2020 11:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		123		70-135	%	10.02.2020 11:25
o-Terphenyl	112		111		70-135	%	10.02.2020 11:25

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3138758 Matrix: Solid Date Prep: 10.02.2020
MB Sample Id: 7712548-1-BLK LCS Sample Id: 7712548-1-BKS LCSD Sample Id: 7712548-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.117	117	70-130	10	35	mg/kg	10.02.2020 11:32	
Toluene	<0.00200	0.100	0.102	102	0.112	112	70-130	9	35	mg/kg	10.02.2020 11:32	
Ethylbenzene	<0.00200	0.100	0.0939	94	0.103	103	71-129	9	35	mg/kg	10.02.2020 11:32	
m,p-Xylenes	<0.00400	0.200	0.188	94	0.206	103	70-135	9	35	mg/kg	10.02.2020 11:32	
o-Xylene	<0.00200	0.100	0.0929	93	0.102	102	71-133	9	35	mg/kg	10.02.2020 11:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		98		70-130	%	10.02.2020 11:32
4-Bromofluorobenzene	89		91		88		70-130	%	10.02.2020 11:32

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3138758 Matrix: Soil Date Prep: 10.02.2020
Parent Sample Id: 674155-001 MS Sample Id: 674155-001 S MSD Sample Id: 674155-001 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	0.114	114	0.126	126	70-130	10	35	mg/kg	10.02.2020 12:17	
Toluene	<0.00200	0.100	0.110	110	0.121	121	70-130	10	35	mg/kg	10.02.2020 12:17	
Ethylbenzene	<0.00200	0.100	0.101	101	0.111	111	71-129	9	35	mg/kg	10.02.2020 12:17	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.223	112	70-135	10	35	mg/kg	10.02.2020 12:17	
o-Xylene	<0.00200	0.100	0.101	101	0.111	111	71-133	9	35	mg/kg	10.02.2020 12:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		70-130	%	10.02.2020 12:17
4-Bromofluorobenzene	86		87		70-130	%	10.02.2020 12:17

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 674085

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 West Mermond
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	enaka@ltenv.com, dmoir@ltenv.com

Work Order Comments

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

Project Name:	PLU 303H CTB	Turn Around	
Project Number:	012420144	Routine	X
P.O. Number:	Eddy County	Rush:	
Sampler's Name:	Elizabeth Naka	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes / No	Wet Ice:	Yes / No	
Temperature (°C):	1.2/1.0	Thermometer ID		
Received Intact:	Yes / No	TNM007		
Cooler Custody Seals:	Yes / No / N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes / No / N/A	Total Containers:	3	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
SS01	S	10/01/20	0925	0.5'	1	X	X	X
SS02	↓	↓	0930					
SS03	↓	↓	0935	↓	↓	↓	↓	↓

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

discrete
↓

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Elizabeth Naka		10/1/20 11:33	2		
			4		
			6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.01.2020 11.33.00 AM

Work Order #: 674085

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

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1	
#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**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.01.2020

Checklist reviewed by: Jessica Kramer Date: 10.02.2020

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Certificate of Analysis Summary 676135

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303 H C7B

Project Id: 012920144
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 10.26.2020 16:50
Report Date: 10.29.2020 08:21
Project Manager: Jessica Kramer

Analysis Requested		676135-001		676135-002		676135-003		676135-004		676135-005		676135-006	
	Field Id:	FS01		FS02		FS03		FS04		FS05		FS06	
	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft		0.5- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.26.2020 14:00		10.26.2020 14:03		10.26.2020 14:05		10.26.2020 14:06		10.26.2020 14:08		10.26.2020 14:10	
BTEX by EPA 8021B	*Extracted:*	10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00	
	Analyzed:	10.27.2020 15:34		10.27.2020 15:57		10.27.2020 16:19		10.27.2020 16:41		10.27.2020 17:04		10.27.2020 17:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.0000198	0.0000198
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.0000198	0.0000198
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.0000198	0.0000198
m,p-Xylenes		<0.00404	0.00404	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399	<0.00404	0.00404	<0.0000397	0.0000397
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.0000198	0.0000198
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.0000198	0.0000198
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.0000198	0.0000198
Chloride by EPA 300	*Extracted:*	10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01	
	Analyzed:	10.27.2020 17:06		10.27.2020 17:12		10.27.2020 17:18		10.27.2020 17:24		10.27.2020 17:42		10.27.2020 17:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		35900	199	5930	50.5	12300	201	18100	200	20000	200	21000	199
TPH by SW8015 Mod	*Extracted:*	10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54	
	Analyzed:	10.27.2020 15:01		10.27.2020 15:21		10.27.2020 15:44		10.27.2020 16:04		10.27.2020 16:31		10.27.2020 16:52	
	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	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3
Diesel Range Organics (DRO)		<49.8	49.8	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3
Total GRO-DRO		<49.8	49.8	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3
Total TPH		<49.8	49.8	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 676135

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303 H C7B

Project Id: 012920144
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 10.26.2020 16:50
Report Date: 10.29.2020 08:21
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	676135-007		676135-008		676135-009		676135-010		676135-011		676135-012	
	Field Id:	FS07		FS08		FS09		FS10		FS11		FS12	
	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft		0.5- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.26.2020 14:13		10.26.2020 14:15		10.26.2020 14:18		10.26.2020 14:17		10.26.2020 14:20		10.26.2020 14:22	
BTEX by EPA 8021B	***Extracted:***	10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00	
	Analyzed:	10.27.2020 17:48		10.27.2020 18:11		10.27.2020 18:33		10.27.2020 19:51		10.27.2020 20:13		10.27.2020 20:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
m,p-Xylenes		<0.00404	0.00404	<0.00399	0.00399	<0.00397	0.00397	<0.00398	0.00398	<0.00399	0.00399	<0.00403	0.00403
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Chloride by EPA 300	***Extracted:***	10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01	
	Analyzed:	10.27.2020 17:54		10.27.2020 18:00		10.27.2020 18:06		10.27.2020 18:12		10.27.2020 18:30		10.27.2020 18:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2270	49.8	1820	50.1	22300	202	19400	200	16400	201	20300	199
TPH by SW8015 Mod	***Extracted:***	10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54	
	Analyzed:	10.27.2020 17:12		10.27.2020 17:32		10.27.2020 17:52		10.27.2020 18:32		10.27.2020 18:52		10.27.2020 19:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.2	50.2	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.2	50.2	81.2	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.2	50.2	<49.9	49.9	<49.8	49.8
Total GRO-DRO		<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.2	50.2	81.2	49.9	<49.8	49.8
Total TPH		<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.2	50.2	81.2	49.9	<49.8	49.8

BRL - Below Reporting Limit

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Jessica Kramer

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Certificate of Analysis Summary 676135

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303 H C7B

Project Id: 012920144
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 10.26.2020 16:50
Report Date: 10.29.2020 08:21
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	676135-013		676135-014		676135-015		676135-016		676135-017		676135-018	
	Field Id:	BH01		BH01 A		BH02		BH02 A		BH03		BH03 A	
	Depth:	1- ft		2- ft		1- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.26.2020 10:47		10.26.2020 10:50		10.26.2020 11:14		10.26.2020 11:16		10.26.2020 11:21		10.26.2020 11:24	
BTEX by EPA 8021B	***Extracted:***	10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00		10.27.2020 10:00	
	Analyzed:	10.27.2020 20:58		10.27.2020 21:20		10.27.2020 21:43		10.27.2020 22:05		10.27.2020 22:28		10.27.2020 22:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202
Toluene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202
Ethylbenzene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202
m,p-Xylenes		<0.00398	0.00398	<0.00396	0.00396	<0.00400	0.00400	<0.00404	0.00404	<0.00403	0.00403	<0.00403	0.00403
o-Xylene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202
Total Xylenes		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202
Total BTEX		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202
Chloride by EPA 300	***Extracted:***	10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01		10.27.2020 12:01	
	Analyzed:	10.27.2020 18:54		10.27.2020 19:00		10.27.2020 19:06		10.27.2020 19:12		10.27.2020 19:18		10.27.2020 19:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5580	49.9	4390	49.8	196	9.98	69.9	9.92	71.8	9.98	57.8	9.96
TPH by SW8015 Mod	***Extracted:***	10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54		10.27.2020 10:54	
	Analyzed:	10.27.2020 19:32		10.27.2020 19:52		10.27.2020 20:12		10.27.2020 20:32		10.27.2020 20:53		10.27.2020 21:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9
Total GRO-DRO		<50.0	50.0	<49.8	49.8	<50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9
Total TPH		<50.0	50.0	<49.8	49.8	<50.3	50.3	<49.9	49.9	<49.9	49.9	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 676135

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303 H C7B

012920144

10.29.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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10.29.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **676135**
PLU 303 H C7B
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676135. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676135 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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Sample Cross Reference 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	10.26.2020 14:00	0.5 ft	676135-001
FS02	S	10.26.2020 14:03	0.5 ft	676135-002
FS03	S	10.26.2020 14:05	0.5 ft	676135-003
FS04	S	10.26.2020 14:06	0.5 ft	676135-004
FS05	S	10.26.2020 14:08	0.5 ft	676135-005
FS06	S	10.26.2020 14:10	0.5 ft	676135-006
FS07	S	10.26.2020 14:13	0.5 ft	676135-007
FS08	S	10.26.2020 14:15	0.5 ft	676135-008
FS09	S	10.26.2020 14:18	0.5 ft	676135-009
FS10	S	10.26.2020 14:17	0.5 ft	676135-010
FS11	S	10.26.2020 14:20	0.5 ft	676135-011
FS12	S	10.26.2020 14:22	0.5 ft	676135-012
BH01	S	10.26.2020 10:47	1 ft	676135-013
BH01 A	S	10.26.2020 10:50	2 ft	676135-014
BH02	S	10.26.2020 11:14	1 ft	676135-015
BH02 A	S	10.26.2020 11:16	2 ft	676135-016
BH03	S	10.26.2020 11:21	1 ft	676135-017
BH03 A	S	10.26.2020 11:24	2 ft	676135-018

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: PLU 303 H C7B

Project ID: *012920144*
Work Order Number(s): *676135*

Report Date: *10.29.2020*
Date Received: *10.26.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-001	Date Collected:	10.26.2020 14:00	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**35900**	199	mg/kg	10.27.2020 17:06		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.27.2020 15:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.27.2020 15:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.27.2020 15:01	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.27.2020 15:01	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.27.2020 15:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.27.2020 15:01	
o-Terphenyl	84-15-1	99	%	70-135	10.27.2020 15:01	

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-001	Date Collected:	10.26.2020 14:00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.27.2020 15:34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.27.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.27.2020 15:34	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.27.2020 15:34	

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-002	Date Collected:	10.26.2020 14:03	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5930**	50.5	mg/kg	10.27.2020 17:12		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.27.2020 15:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.27.2020 15:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.27.2020 15:21	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.27.2020 15:21	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.27.2020 15:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.27.2020 15:21	
o-Terphenyl	84-15-1	104	%	70-135	10.27.2020 15:21	

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Sample Id:	**FS02**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-002	Date Collected:	10.26.2020 14:03	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.27.2020 15:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.27.2020 15:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.27.2020 15:57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.27.2020 15:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.27.2020 15:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.27.2020 15:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.27.2020 15:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.27.2020 15:57	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.27.2020 15:57	

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Sample Id:	**FS03**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-003	Date Collected:	10.26.2020 14:05	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12300**	201	mg/kg	10.27.2020 17:18		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.27.2020 15:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.27.2020 15:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.27.2020 15:44	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.27.2020 15:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.27.2020 15:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	10.27.2020 15:44	
o-Terphenyl	84-15-1	116	%	70-135	10.27.2020 15:44	

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Sample Id:	**FS03**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-003	Date Collected:	10.26.2020 14:05	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.27.2020 16:19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.27.2020 16:19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.27.2020 16:19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.27.2020 16:19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.27.2020 16:19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.27.2020 16:19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.27.2020 16:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.27.2020 16:19	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 16:19	

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Sample Id:	**FS04**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-004	Date Collected:	10.26.2020 14:06	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18100**	200	mg/kg	10.27.2020 17:24		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.27.2020 16:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.27.2020 16:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.27.2020 16:04	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.27.2020 16:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.27.2020 16:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.27.2020 16:04	
o-Terphenyl	84-15-1	104	%	70-135	10.27.2020 16:04	

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Sample Id:	**FS04**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-004	Date Collected:	10.26.2020 14:06	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.27.2020 16:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.27.2020 16:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.27.2020 16:41	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.27.2020 16:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.27.2020 16:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.27.2020 16:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.27.2020 16:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.27.2020 16:41	
4-Bromofluorobenzene	460-00-4	86	%	70-130	10.27.2020 16:41	

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Sample Id:	**FS05**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-005	Date Collected:	10.26.2020 14:08	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20000**	200	mg/kg	10.27.2020 17:42		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.27.2020 16:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.27.2020 16:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.27.2020 16:31	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.27.2020 16:31	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.27.2020 16:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.27.2020 16:31	
o-Terphenyl	84-15-1	105	%	70-135	10.27.2020 16:31	

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Sample Id:	**FS05**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-005	Date Collected:	10.26.2020 14:08	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.27.2020 17:04	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.27.2020 17:04	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.27.2020 17:04	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.27.2020 17:04	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.27.2020 17:04	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.27.2020 17:04	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.27.2020 17:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 17:04	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.27.2020 17:04	

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Sample Id:	**FS06**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-006	Date Collected:	10.26.2020 14:10	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21000**	199	mg/kg	10.27.2020 17:48		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.27.2020 16:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.27.2020 16:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.27.2020 16:52	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.27.2020 16:52	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.27.2020 16:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	10.27.2020 16:52	
o-Terphenyl	84-15-1	114	%	70-135	10.27.2020 16:52	

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Sample Id:	**FS06**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-006	Date Collected:	10.26.2020 14:10	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0000198	0.0000198	mg/kg	10.27.2020 17:26	U	1
Toluene	108-88-3	<0.0000198	0.0000198	mg/kg	10.27.2020 17:26	U	1
Ethylbenzene	100-41-4	<0.0000198	0.0000198	mg/kg	10.27.2020 17:26	U	1
m,p-Xylenes	179601-23-1	<0.0000397	0.0000397	mg/kg	10.27.2020 17:26	U	1
o-Xylene	95-47-6	<0.0000198	0.0000198	mg/kg	10.27.2020 17:26	U	1
Total Xylenes	1330-20-7	<0.0000198	0.0000198	mg/kg	10.27.2020 17:26	U	1
Total BTEX		<0.0000198	0.0000198	mg/kg	10.27.2020 17:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 17:26	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.27.2020 17:26	

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Sample Id:	**FS07**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-007	Date Collected:	10.26.2020 14:13	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2270**	49.8	mg/kg	10.27.2020 17:54		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.27.2020 17:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.27.2020 17:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.27.2020 17:12	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.27.2020 17:12	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.27.2020 17:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	10.27.2020 17:12	
o-Terphenyl	84-15-1	118	%	70-135	10.27.2020 17:12	

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Sample Id:	**FS07**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-007	Date Collected:	10.26.2020 14:13	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.27.2020 17:48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.27.2020 17:48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.27.2020 17:48	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.27.2020 17:48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.27.2020 17:48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.27.2020 17:48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.27.2020 17:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 17:48	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.27.2020 17:48	

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Sample Id:	**FS08**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-008	Date Collected:	10.26.2020 14:15	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1820**	50.1	mg/kg	10.27.2020 18:00		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.27.2020 17:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.27.2020 17:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.27.2020 17:32	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.27.2020 17:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.27.2020 17:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	10.27.2020 17:32	
o-Terphenyl	84-15-1	116	%	70-135	10.27.2020 17:32	

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Sample Id:	**FS08**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-008	Date Collected:	10.26.2020 14:15	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.27.2020 18:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.27.2020 18:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.27.2020 18:11	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.27.2020 18:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.27.2020 18:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.27.2020 18:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.27.2020 18:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 18:11	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.27.2020 18:11	

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Sample Id:	**FS09**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-009	Date Collected:	10.26.2020 14:18	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22300**	202	mg/kg	10.27.2020 18:06		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.27.2020 17:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.27.2020 17:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.27.2020 17:52	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.27.2020 17:52	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.27.2020 17:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	10.27.2020 17:52	
o-Terphenyl	84-15-1	109	%	70-135	10.27.2020 17:52	

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Sample Id:	**FS09**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-009	Date Collected:	10.26.2020 14:18	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.27.2020 18:33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.27.2020 18:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.27.2020 18:33	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.27.2020 18:33	

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Sample Id:	**FS10**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-010	Date Collected:	10.26.2020 14:17	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19400**	200	mg/kg	10.27.2020 18:12		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.27.2020 18:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.27.2020 18:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.27.2020 18:32	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.27.2020 18:32	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.27.2020 18:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.27.2020 18:32	
o-Terphenyl	84-15-1	103	%	70-135	10.27.2020 18:32	

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Sample Id:	**FS10**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-010	Date Collected:	10.26.2020 14:17	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.27.2020 19:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.27.2020 19:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.27.2020 19:51	
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.27.2020 19:51	

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Sample Id:	**FS11**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-011	Date Collected:	10.26.2020 14:20	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16400**	201	mg/kg	10.27.2020 18:30		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.27.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	**81.2**	49.9	mg/kg	10.27.2020 18:52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.27.2020 18:52	U	1
Total GRO-DRO	PHC628	**81.2**	49.9	mg/kg	10.27.2020 18:52		1
Total TPH	PHC635	**81.2**	49.9	mg/kg	10.27.2020 18:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.27.2020 18:52	
o-Terphenyl	84-15-1	103	%	70-135	10.27.2020 18:52	

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Sample Id:	**FS11**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-011	Date Collected:	10.26.2020 14:20	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.27.2020 20:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.27.2020 20:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.27.2020 20:13	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.27.2020 20:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.27.2020 20:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.27.2020 20:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.27.2020 20:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 20:13	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.27.2020 20:13	

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Sample Id:	**FS12**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-012	Date Collected:	10.26.2020 14:22	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20300**	199	mg/kg	10.27.2020 18:36		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.27.2020 19:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.27.2020 19:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.27.2020 19:12	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.27.2020 19:12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.27.2020 19:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.27.2020 19:12	
o-Terphenyl	84-15-1	107	%	70-135	10.27.2020 19:12	

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Sample Id:	**FS12**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-012	Date Collected:	10.26.2020 14:22	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.27.2020 20:36	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.27.2020 20:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.27.2020 20:36	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.27.2020 20:36	

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Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-013	Date Collected:	10.26.2020 10:47	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5580**	49.9	mg/kg	10.27.2020 18:54		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.27.2020 19:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.27.2020 19:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.27.2020 19:32	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.27.2020 19:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.27.2020 19:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.27.2020 19:32	
o-Terphenyl	84-15-1	108	%	70-135	10.27.2020 19:32	

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Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-013	Date Collected:	10.26.2020 10:47	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.27.2020 20:58	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.27.2020 20:58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.27.2020 20:58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.27.2020 20:58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.27.2020 20:58	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.27.2020 20:58	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.27.2020 20:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 20:58	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.27.2020 20:58	

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Sample Id:	**BH01 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-014	Date Collected:	10.26.2020 10:50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4390**	49.8	mg/kg	10.27.2020 19:00		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.27.2020 19:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.27.2020 19:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.27.2020 19:52	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.27.2020 19:52	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.27.2020 19:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.27.2020 19:52	
o-Terphenyl	84-15-1	103	%	70-135	10.27.2020 19:52	

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Sample Id:	**BH01 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-014	Date Collected:	10.26.2020 10:50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.27.2020 21:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.27.2020 21:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.27.2020 21:20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.27.2020 21:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.27.2020 21:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.27.2020 21:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.27.2020 21:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.27.2020 21:20	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.27.2020 21:20	

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PLU 303 H C7B

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-015	Date Collected:	10.26.2020 11:14	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**196**	9.98	mg/kg	10.27.2020 19:06		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.27.2020 20:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.27.2020 20:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.27.2020 20:12	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.27.2020 20:12	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.27.2020 20:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.27.2020 20:12	
o-Terphenyl	84-15-1	102	%	70-135	10.27.2020 20:12	

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PLU 303 H C7B

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-015	Date Collected:	10.26.2020 11:14	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.27.2020 21:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.27.2020 21:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.27.2020 21:43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.27.2020 21:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.27.2020 21:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.27.2020 21:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.27.2020 21:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 21:43	
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.27.2020 21:43	

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**BH02 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-016	Date Collected:	10.26.2020 11:16	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**69.9**	9.92	mg/kg	10.27.2020 19:12		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.27.2020 20:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.27.2020 20:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.27.2020 20:32	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.27.2020 20:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.27.2020 20:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.27.2020 20:32	
o-Terphenyl	84-15-1	101	%	70-135	10.27.2020 20:32	

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**BH02 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-016	Date Collected:	10.26.2020 11:16	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.27.2020 22:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.27.2020 22:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.27.2020 22:05	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.27.2020 22:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.27.2020 22:05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.27.2020 22:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.27.2020 22:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.27.2020 22:05	
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.27.2020 22:05	

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**BH03**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-017	Date Collected:	10.26.2020 11:21	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**71.8**	9.98	mg/kg	10.27.2020 19:18		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.27.2020 20:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.27.2020 20:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.27.2020 20:53	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.27.2020 20:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.27.2020 20:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.27.2020 20:53	
o-Terphenyl	84-15-1	105	%	70-135	10.27.2020 20:53	

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**BH03**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-017	Date Collected:	10.26.2020 11:21	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.27.2020 22:28	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.27.2020 22:28	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.27.2020 22:28	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.27.2020 22:28	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.27.2020 22:28	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.27.2020 22:28	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.27.2020 22:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.27.2020 22:28	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.27.2020 22:28	

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**BH03 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-018	Date Collected:	10.26.2020 11:24	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 12:01	% Moisture:	
Seq Number:	3140755			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**57.8**	9.96	mg/kg	10.27.2020 19:24		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 10:54	% Moisture:	
Seq Number:	3140767			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.27.2020 21:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.27.2020 21:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.27.2020 21:12	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.27.2020 21:12	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.27.2020 21:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	10.27.2020 21:12	
o-Terphenyl	84-15-1	108	%	70-135	10.27.2020 21:12	

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Certificate of Analytical Results 676135

LT Environmental, Inc., Arvada, CO

PLU 303 H C7B

Sample Id:	**BH03 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676135-018	Date Collected:	10.26.2020 11:24	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 10:00	% Moisture:	
Seq Number:	3140750			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.27.2020 22:50	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.27.2020 22:50	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.27.2020 22:50	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.27.2020 22:50	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.27.2020 22:50	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.27.2020 22:50	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.27.2020 22:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.27.2020 22:50	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.27.2020 22:50	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 676135

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LT Environmental, Inc.

PLU 303 H C7B

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140755 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7713998-1-BLK — LCS Sample Id: 7713998-1-BKS — LCSD Sample Id: 7713998-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	260	104	258	103	90-110	1	20	mg/kg	10.27.2020 16:36	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140755 — Matrix: Soil — Date Prep: 10.27.2020
Parent Sample Id: 676134-021 — MS Sample Id: 676134-021 S — MSD Sample Id: 676134-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2440	198	2650	106	2630	94	90-110	1	20	mg/kg	10.27.2020 16:54	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140755 — Matrix: Soil — Date Prep: 10.27.2020
Parent Sample Id: 676135-010 — MS Sample Id: 676135-010 S — MSD Sample Id: 676135-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	19400	198	19600	101	19600	101	90-110	0	20	mg/kg	10.27.2020 18:18	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3140767 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7713996-1-BLK — LCS Sample Id: 7713996-1-BKS — LCSD Sample Id: 7713996-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1050	105	70-135	5	35	mg/kg	10.27.2020 12:21	
Diesel Range Organics (DRO)	<50.0	1000	1230	123	1200	120	70-135	2	35	mg/kg	10.27.2020 12:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		125		121		70-135	%	10.27.2020 12:21
o-Terphenyl	115		119		117		70-135	%	10.27.2020 12:21

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3140767 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7713996-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.27.2020 12:02	

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

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QC Summary 676135

LT Environmental, Inc.

PLU 303 H C7B

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3140767 Matrix: Soil Date Prep: 10.27.2020
Parent Sample Id: 676134-021 MS Sample Id: 676134-021 S MSD Sample Id: 676134-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	978	98	893	89	70-135	9	35	mg/kg	10.27.2020 14:21	
Diesel Range Organics (DRO)	<50.2	1000	1000	100	1020	102	70-135	2	35	mg/kg	10.27.2020 14:21	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		133		70-135	%	10.27.2020 14:21
o-Terphenyl	107		119		70-135	%	10.27.2020 14:21

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3140750 Matrix: Solid Date Prep: 10.27.2020
MB Sample Id: 7713993-1-BLK LCS Sample Id: 7713993-1-BKS LCSD Sample Id: 7713993-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.100	100	0.103	103	70-130	3	35	mg/kg	10.27.2020 13:09	
Toluene	<0.00200	0.100	0.0969	97	0.0994	99	70-130	3	35	mg/kg	10.27.2020 13:09	
Ethylbenzene	<0.00200	0.100	0.0883	88	0.0908	91	71-129	3	35	mg/kg	10.27.2020 13:09	
m,p-Xylenes	<0.00400	0.200	0.177	89	0.181	91	70-135	2	35	mg/kg	10.27.2020 13:09	
o-Xylene	<0.00200	0.100	0.0871	87	0.0894	89	71-133	3	35	mg/kg	10.27.2020 13:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		100		100		70-130	%	10.27.2020 13:09
4-Bromofluorobenzene	85		86		85		70-130	%	10.27.2020 13:09

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3140750 Matrix: Soil Date Prep: 10.27.2020
Parent Sample Id: 676134-021 MS Sample Id: 676134-021 S MSD Sample Id: 676134-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.110	109	0.111	111	70-130	1	35	mg/kg	10.27.2020 13:54	
Toluene	<0.00201	0.101	0.105	104	0.105	105	70-130	0	35	mg/kg	10.27.2020 13:54	
Ethylbenzene	<0.00201	0.101	0.0919	91	0.0956	96	71-129	4	35	mg/kg	10.27.2020 13:54	
m,p-Xylenes	<0.00402	0.201	0.185	92	0.192	96	70-135	4	35	mg/kg	10.27.2020 13:54	
o-Xylene	<0.00201	0.101	0.0904	90	0.0959	96	71-133	6	35	mg/kg	10.27.2020 13:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	10.27.2020 13:54
4-Bromofluorobenzene	86		82		70-130	%	10.27.2020 13:54

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: 676135

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental INC.	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1 Unit 222	Address:	3104 E Greene St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com tcasey@ltenv.com

Work Order Comments

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

Project Name:	PLU 303H CTB	Turn Around	
Project Number:	012920144	Routine	☒
Project Location		Rush:	
Sampler's Name:	Travis Casey	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.8 / 1.6	Thermometer ID	
Received Intact:	Yes No	TNM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	18

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	TPH (EPA) 8015	BTEX (EPA 8021)	Chloride (EPA 300.0)
	FS01	S	10/26/20	1400	0.5'	1		X	X	X
	FS02			1403		1		X	X	X
	FS03			1405		1		X	X	X
	FS04			1406		1		X	X	X
	FS05			1408		1		X	X	X
	FS06			1410		1		X	X	X
	FS07			1413		1		X	X	X
	FS08			1415		1		X	X	X
	FS09			1416		1		X	X	X
	FS10			1417		1		X	X	X

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Sample Comments

Discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

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

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

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10/26/20 16:50	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

Chain of Custody

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 Crasibad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
www.xenco.com

Work Order No: 6761135

Page 2 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1 Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com tcasey@ltenv.com

Work Order Comments

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

Project Name:	PLU 303H CTB	Turn Around	
Project Number:	012920144	Routine	☒
Project Location		Rush:	
Sampler's Name:	Travis Casey	Due Date:	
PO #:		Quote #:	

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

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	TPH (EPA 8015)	BTEX (EPA 8021)	Chlorides (300.0)	Sample Comments
	FS11	S	10/26/20	1420	0.5'	1		X	X	X	Discrete
	FS12			1422	0.5'	1		X	X	X	
	BH01			1047	1'	1		X	X	X	
	BH01A			1050	2'	1		X	X	X	
	BH02			1114	1'	1		X	X	X	
	BH02A			1116	2'	1		X	X	X	
	BH03			1121	1'	1		X	X	X	
	BH03A			1124	2'	1		X	X	X	

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

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

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

1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Travis Casey		10/26/20 16:50	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.26.2020 04.50.00 PM

Work Order #: 676135

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

Temperature Measuring device used : T_NM_007

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.27.2020

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 10.27.2020

Jessica Kramer

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Certificate of Analysis Summary 676136

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303H C7B

Project Id: 012920144
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 10.26.2020 16:50
Report Date: 10.29.2020 09:04
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	676136-001		676136-002		676136-003		676136-004					
	Field Id:	BH04		BH04 A		BH05		BH05 A					
	Depth:	1- ft		4- ft		1- ft		4- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	10.26.2020 09:34		10.26.2020 09:48		10.26.2020 09:49		10.26.2020 09:58					
BTEX by EPA 8021B	***Extracted:***	10.27.2020 17:05		10.27.2020 17:05		10.27.2020 17:05		10.27.2020 17:05					
	Analyzed:	10.28.2020 02:19		10.28.2020 02:41		10.28.2020 03:04		10.28.2020 03:26					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200				
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200				
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200				
m,p-Xylenes		<0.00403	0.00403	<0.00400	0.00400	<0.00396	0.00396	<0.00401	0.00401				
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200				
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200				
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	10.27.2020 14:02		10.27.2020 14:02		10.27.2020 14:02		10.27.2020 14:02					
	Analyzed:	10.27.2020 20:00		10.27.2020 20:17		10.27.2020 20:23		10.27.2020 20:29					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		<9.98	9.98	88.4	10.0	23.5	10.0	61.2	9.94				
TPH by SW8015 Mod	***Extracted:***	10.27.2020 16:58		10.27.2020 16:58		10.27.2020 16:58		10.27.2020 16:58					
	Analyzed:	10.27.2020 23:12		10.28.2020 00:11		10.28.2020 00:31		10.28.2020 00:51					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9				
Total GRO-DRO		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9				
Total TPH		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9				

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 676136

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303H C7B

012920144

10.29.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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10.29.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **676136**
PLU 303H C7B
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676136. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676136 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH04	S	10.26.2020 09:34	1 ft	676136-001
BH04 A	S	10.26.2020 09:48	4 ft	676136-002
BH05	S	10.26.2020 09:49	1 ft	676136-003
BH05 A	S	10.26.2020 09:58	4 ft	676136-004

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: PLU 303H C7B

Project ID: *012920144*
Work Order Number(s): *676136*

Report Date: *10.29.2020*
Date Received: *10.26.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH04**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676136-001	Date Collected:	10.26.2020 09:34	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 14:02	% Moisture:	
Seq Number:	3140756			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	10.27.2020 20:00	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 16:58	% Moisture:	
Seq Number:	3140768			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.27.2020 23:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.27.2020 23:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.27.2020 23:12	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.27.2020 23:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.27.2020 23:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	10.27.2020 23:12	
o-Terphenyl	84-15-1	121	%	70-135	10.27.2020 23:12	

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Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH04**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676136-001	Date Collected:	10.26.2020 09:34	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 17:05	% Moisture:	
Seq Number:	3140788			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.28.2020 02:19	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.28.2020 02:19	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.28.2020 02:19	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.28.2020 02:19	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.28.2020 02:19	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.28.2020 02:19	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.28.2020 02:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.28.2020 02:19	
4-Bromofluorobenzene	460-00-4	126	%	70-130	10.28.2020 02:19	

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Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH04 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676136-002	Date Collected:	10.26.2020 09:48	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 14:02	% Moisture:	
Seq Number:	3140756			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**88.4**	10.0	mg/kg	10.27.2020 20:17		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 16:58	% Moisture:	
Seq Number:	3140768			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.28.2020 00:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.28.2020 00:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.28.2020 00:11	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.28.2020 00:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.28.2020 00:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	10.28.2020 00:11	
o-Terphenyl	84-15-1	124	%	70-135	10.28.2020 00:11	

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Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH04 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676136-002	Date Collected:	10.26.2020 09:48	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 17:05	% Moisture:	
Seq Number:	3140788			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.28.2020 02:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.28.2020 02:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.28.2020 02:41	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.28.2020 02:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.28.2020 02:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.28.2020 02:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.28.2020 02:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	10.28.2020 02:41	
1,4-Difluorobenzene	540-36-3	112	%	70-130	10.28.2020 02:41	

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Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH05**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676136-003	Date Collected:	10.26.2020 09:49	Sample Depth:	1 ft

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB
Analyst: MAB
Seq Number: 3140756

Date Prep: 10.27.2020 14:02

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.5**	10.0	mg/kg	10.27.2020 20:23		1

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: MAB
Analyst: CAC
Seq Number: 3140768

Date Prep: 10.27.2020 16:58

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.28.2020 00:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.28.2020 00:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.28.2020 00:31	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.28.2020 00:31	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.28.2020 00:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	10.28.2020 00:31	
o-Terphenyl	84-15-1	116	%	70-135	10.28.2020 00:31	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH05**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676136-003	Date Collected:	10.26.2020 09:49	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 17:05	% Moisture:	
Seq Number:	3140788			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.28.2020 03:04	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.28.2020 03:04	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.28.2020 03:04	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.28.2020 03:04	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.28.2020 03:04	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.28.2020 03:04	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.28.2020 03:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	10.28.2020 03:04	
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.28.2020 03:04	

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Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH05 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676136-004	Date Collected:	10.26.2020 09:58	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 14:02	% Moisture:	
Seq Number:	3140756			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**61.2**	9.94	mg/kg	10.27.2020 20:29		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 16:58	% Moisture:	
Seq Number:	3140768			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.28.2020 00:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.28.2020 00:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.28.2020 00:51	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.28.2020 00:51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.28.2020 00:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	10.28.2020 00:51	
o-Terphenyl	84-15-1	118	%	70-135	10.28.2020 00:51	

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Certificate of Analytical Results 676136

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH05 A**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676136-004	Date Collected:	10.26.2020 09:58	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 17:05	% Moisture:	
Seq Number:	3140788			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.28.2020 03:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.28.2020 03:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.28.2020 03:26	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.28.2020 03:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.28.2020 03:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.28.2020 03:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.28.2020 03:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.28.2020 03:26	
4-Bromofluorobenzene	460-00-4	122	%	70-130	10.28.2020 03:26	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 676136

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LT Environmental, Inc.

PLU 303H C7B

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140756 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7714019-1-BLK — LCS Sample Id: 7714019-1-BKS — LCSD Sample Id: 7714019-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	264	106	262	105	90-110	1	20	mg/kg	10.27.2020 19:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140756 — Matrix: Soil — Date Prep: 10.27.2020
Parent Sample Id: 676136-001 — MS Sample Id: 676136-001 S — MSD Sample Id: 676136-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	209	105	206	102	90-110	1	20	mg/kg	10.27.2020 20:06	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140756 — Matrix: Soil — Date Prep: 10.27.2020
Parent Sample Id: 676153-005 — MS Sample Id: 676153-005 S — MSD Sample Id: 676153-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	301	200	508	104	502	101	90-110	1	20	mg/kg	10.27.2020 21:29	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3140768 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7714018-1-BLK — LCS Sample Id: 7714018-1-BKS — LCSD Sample Id: 7714018-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1070	107	1160	116	70-135	8	35	mg/kg	10.27.2020 22:32	
Diesel Range Organics (DRO)	<50.0	1000	920	92	1040	104	70-135	12	35	mg/kg	10.27.2020 22:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		86		127		70-135	%	10.27.2020 22:32
o-Terphenyl	107		80		133		70-135	%	10.27.2020 22:32

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3140768 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7714018-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.27.2020 22:12	

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

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QC Summary 676136

LT Environmental, Inc.

PLU 303H C7B

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3140768 Matrix: Soil Date Prep: 10.27.2020
Parent Sample Id: 676136-001 MS Sample Id: 676136-001 S MSD Sample Id: 676136-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1080	108	1110	111	70-135	3	35	mg/kg	10.27.2020 23:32	
Diesel Range Organics (DRO)	<50.2	1000	1250	125	1270	127	70-135	2	35	mg/kg	10.27.2020 23:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		125		70-135	%	10.27.2020 23:32
o-Terphenyl	113		104		70-135	%	10.27.2020 23:32

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3140788 Matrix: Solid Date Prep: 10.27.2020
MB Sample Id: 7714021-1-BLK LCS Sample Id: 7714021-1-BKS LCSD Sample Id: 7714021-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.104	104	70-130	3	35	mg/kg	10.28.2020 00:14	
Toluene	<0.00200	0.100	0.0989	99	0.0982	98	70-130	1	35	mg/kg	10.28.2020 00:14	
Ethylbenzene	<0.00200	0.100	0.0989	99	0.101	101	71-129	2	35	mg/kg	10.28.2020 00:14	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.208	104	70-135	3	35	mg/kg	10.28.2020 00:14	
o-Xylene	<0.00200	0.100	0.101	101	0.103	103	71-133	2	35	mg/kg	10.28.2020 00:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		101		100		70-130	%	10.28.2020 00:14
4-Bromofluorobenzene	117		109		111		70-130	%	10.28.2020 00:14

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3140788 Matrix: Soil Date Prep: 10.27.2020
Parent Sample Id: 676136-001 MS Sample Id: 676136-001 S MSD Sample Id: 676136-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.112	112	0.0978	98	70-130	14	35	mg/kg	10.28.2020 00:59	
Toluene	<0.00201	0.100	0.105	105	0.0938	94	70-130	11	35	mg/kg	10.28.2020 00:59	
Ethylbenzene	<0.00201	0.100	0.107	107	0.0953	95	71-129	12	35	mg/kg	10.28.2020 00:59	
m,p-Xylenes	<0.00402	0.201	0.216	107	0.195	97	70-135	10	35	mg/kg	10.28.2020 00:59	
o-Xylene	<0.00201	0.100	0.108	108	0.0977	98	71-133	10	35	mg/kg	10.28.2020 00:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		93		70-130	%	10.28.2020 00:59
4-Bromofluorobenzene	113		102		70-130	%	10.28.2020 00:59

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 6761364

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com

Work Order Comments

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

Project Name:	PLU 303H CTB	Turn Around	
Project Number:	912920144	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.8 / 1.6	Thermometer ID		
Received Intact:	(Yes) No	TNN007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	4	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
BH04	S	10/26/20	0934	1'	1	X	X	X	Discrete
BH04A	"	"	0948	4'	1	X	X	X	"
BH05	"	"	0949	1'	1	X	X	X	"
BH05A	"	"	0958	4'	1	X	X	X	"

ANALYSIS REQUEST

Work Order Notes

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

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			10/26/20 16:50	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.26.2020 04.50.00 PM

Work Order #: 676136

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

Temperature Measuring device used : T_NM_007

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.27.2020

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 10.27.2020

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 676137

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303H C7B

Project Id: 012920144
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 10.26.2020 16:50
Report Date: 10.29.2020 09:04
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	676137-001		676137-002			
	Field Id:	BH06		BH07			
	Depth:	1- ft		1- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	10.26.2020 13:14		10.26.2020 13:18			
BTEX by EPA 8021B	***Extracted:***	10.27.2020 17:05		10.27.2020 17:05			
	Analyzed:	10.28.2020 03:49		10.28.2020 04:11			
	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		<0.00398	0.00398	<0.00400	0.00400		
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:***	10.27.2020 14:02		10.27.2020 14:02			
	Analyzed:	10.27.2020 20:35		10.27.2020 20:53			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		17.1	9.98	24.8	9.98		
TPH by SW8015 Mod	***Extracted:***	10.27.2020 16:58		10.27.2020 16:58			
	Analyzed:	10.28.2020 01:11		10.28.2020 01:31			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.2	50.2		
Diesel Range Organics (DRO)		<50.0	50.0	<50.2	50.2		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.2	50.2		
Total GRO-DRO		<50.0	50.0	<50.2	50.2		
Total TPH		<50.0	50.0	<50.2	50.2		

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 676137

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303H C7B

012920144

10.29.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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10.29.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **676137**
PLU 303H C7B
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676137. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676137 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH06	S	10.26.2020 13:14	1 ft	676137-001
BH07	S	10.26.2020 13:18	1 ft	676137-002

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: PLU 303H C7B

Project ID: *012920144*
Work Order Number(s): *676137*

Report Date: *10.29.2020*
Date Received: *10.26.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH06**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676137-001	Date Collected:	10.26.2020 13:14	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 14:02	% Moisture:	
Seq Number:	3140756			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.1**	9.98	mg/kg	10.27.2020 20:35		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 16:58	% Moisture:	
Seq Number:	3140768			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.28.2020 01:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.28.2020 01:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.28.2020 01:11	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.28.2020 01:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.28.2020 01:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.28.2020 01:11	
o-Terphenyl	84-15-1	114	%	70-135	10.28.2020 01:11	

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Certificate of Analytical Results 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH06**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676137-001	Date Collected:	10.26.2020 13:14	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 17:05	% Moisture:	
Seq Number:	3140788			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.28.2020 03:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.28.2020 03:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.28.2020 03:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.28.2020 03:49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.28.2020 03:49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.28.2020 03:49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.28.2020 03:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	10.28.2020 03:49	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.28.2020 03:49	

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Certificate of Analytical Results 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH07**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676137-002	Date Collected:	10.26.2020 13:18	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 14:02	% Moisture:	
Seq Number:	3140756			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**24.8**	9.98	mg/kg	10.27.2020 20:53		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.27.2020 16:58	% Moisture:	
Seq Number:	3140768			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.28.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.28.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.28.2020 01:31	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.28.2020 01:31	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.28.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	10.28.2020 01:31	
o-Terphenyl	84-15-1	120	%	70-135	10.28.2020 01:31	

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Certificate of Analytical Results 676137

LT Environmental, Inc., Arvada, CO

PLU 303H C7B

Sample Id:	**BH07**	Matrix:	Soil	Date Received:	10.26.2020 16:50
Lab Sample Id:	676137-002	Date Collected:	10.26.2020 13:18	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.27.2020 17:05	% Moisture:	
Seq Number:	3140788			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.28.2020 04:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.28.2020 04:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.28.2020 04:11	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.28.2020 04:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.28.2020 04:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.28.2020 04:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.28.2020 04:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	10.28.2020 04:11	
1,4-Difluorobenzene	540-36-3	109	%	70-130	10.28.2020 04:11	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 676137

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LT Environmental, Inc.

PLU 303H C7B

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140756 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7714019-1-BLK — LCS Sample Id: 7714019-1-BKS — LCSD Sample Id: 7714019-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	264	106	262	105	90-110	1	20	mg/kg	10.27.2020 19:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140756 — Matrix: Soil — Date Prep: 10.27.2020
Parent Sample Id: 676136-001 — MS Sample Id: 676136-001 S — MSD Sample Id: 676136-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	209	105	206	102	90-110	1	20	mg/kg	10.27.2020 20:06	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3140756 — Matrix: Soil — Date Prep: 10.27.2020
Parent Sample Id: 676153-005 — MS Sample Id: 676153-005 S — MSD Sample Id: 676153-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	301	200	508	104	502	101	90-110	1	20	mg/kg	10.27.2020 21:29	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3140768 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7714018-1-BLK — LCS Sample Id: 7714018-1-BKS — LCSD Sample Id: 7714018-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1070	107	1160	116	70-135	8	35	mg/kg	10.27.2020 22:32	
Diesel Range Organics (DRO)	<50.0	1000	920	92	1040	104	70-135	12	35	mg/kg	10.27.2020 22:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		86		127		70-135	%	10.27.2020 22:32
o-Terphenyl	107		80		133		70-135	%	10.27.2020 22:32

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3140768 — Matrix: Solid — Date Prep: 10.27.2020
MB Sample Id: 7714018-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.27.2020 22:12	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 676137

LT Environmental, Inc.

PLU 303H C7B

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3140768 Matrix: Soil Date Prep: 10.27.2020
Parent Sample Id: 676136-001 MS Sample Id: 676136-001 S MSD Sample Id: 676136-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1080	108	1110	111	70-135	3	35	mg/kg	10.27.2020 23:32	
Diesel Range Organics (DRO)	<50.2	1000	1250	125	1270	127	70-135	2	35	mg/kg	10.27.2020 23:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		125		70-135	%	10.27.2020 23:32
o-Terphenyl	113		104		70-135	%	10.27.2020 23:32

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3140788 Matrix: Solid Date Prep: 10.27.2020
MB Sample Id: 7714021-1-BLK LCS Sample Id: 7714021-1-BKS LCSD Sample Id: 7714021-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.104	104	70-130	3	35	mg/kg	10.28.2020 00:14	
Toluene	<0.00200	0.100	0.0989	99	0.0982	98	70-130	1	35	mg/kg	10.28.2020 00:14	
Ethylbenzene	<0.00200	0.100	0.0989	99	0.101	101	71-129	2	35	mg/kg	10.28.2020 00:14	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.208	104	70-135	3	35	mg/kg	10.28.2020 00:14	
o-Xylene	<0.00200	0.100	0.101	101	0.103	103	71-133	2	35	mg/kg	10.28.2020 00:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		101		100		70-130	%	10.28.2020 00:14
4-Bromofluorobenzene	117		109		111		70-130	%	10.28.2020 00:14

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3140788 Matrix: Soil Date Prep: 10.27.2020
Parent Sample Id: 676136-001 MS Sample Id: 676136-001 S MSD Sample Id: 676136-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.112	112	0.0978	98	70-130	14	35	mg/kg	10.28.2020 00:59	
Toluene	<0.00201	0.100	0.105	105	0.0938	94	70-130	11	35	mg/kg	10.28.2020 00:59	
Ethylbenzene	<0.00201	0.100	0.107	107	0.0953	95	71-129	12	35	mg/kg	10.28.2020 00:59	
m,p-Xylenes	<0.00402	0.201	0.216	107	0.195	97	70-135	10	35	mg/kg	10.28.2020 00:59	
o-Xylene	<0.00201	0.100	0.108	108	0.0977	98	71-133	10	35	mg/kg	10.28.2020 00:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		93		70-130	%	10.28.2020 00:59
4-Bromofluorobenzene	113		102		70-130	%	10.28.2020 00:59

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 676137

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178 Email:		tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com

Work Order Comments

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

Project Name:	PLU 303H CTB	Turn Around	
Project Number:	012920144	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.8 / 1.6	Thermometer ID		
Received Intact:	(Yes) No		NM007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Work Order Notes / Sample Comments
BH06	S	10/26/20	1314	1'	1	X	X	X	Discrete
BH07	S		1318	1'	1	X	X	X	1

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

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		10/26/20 16:50	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.26.2020 04.50.00 PM

Work Order #: 676137

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

Temperature Measuring device used : T_NM_007

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.27.2020

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 10.27.2020

Jessica Kramer

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Certificate of Analysis Summary 676674

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303H CTB

Project Id: 012920144
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 11.02.2020 15:10
Report Date: 11.05.2020 11:50
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	676674-001		676674-002		676674-003		676674-004		676674-005	
	Field Id:	FS01A		FS06A		FS09A		FS12A		BH01B	
	Depth:	1- ft		1- ft		1- ft		1- ft		3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.02.2020 12:05		11.02.2020 11:25		11.02.2020 11:10		11.02.2020 10:30		11.02.2020 12:40	
BTEX by EPA 8021B	***Extracted:***	11.03.2020 09:30		11.03.2020 09:30		11.03.2020 09:30		11.03.2020 09:30		11.03.2020 09:30	
	Analyzed:	11.03.2020 14:18		11.03.2020 14:40		11.03.2020 15:02		11.03.2020 15:25		11.03.2020 15:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00399	0.00399	<0.00403	0.00403	<0.00401	0.00401	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	11.02.2020 16:33		11.02.2020 16:33		11.02.2020 16:33		11.02.2020 16:33		11.02.2020 16:33	
	Analyzed:	11.02.2020 19:55		11.02.2020 20:01		11.02.2020 20:06		11.02.2020 20:11		11.02.2020 20:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5710	49.5	4900	50.5	8810	49.6	2500	49.9	49.8	10.0
TPH by SW8015 Mod	***Extracted:***	11.02.2020 16:30		11.02.2020 16:30		11.02.2020 16:30		11.02.2020 16:30		11.02.2020 16:30	
	Analyzed:	11.03.2020 00:19		11.03.2020 00:39		11.03.2020 00:59		11.03.2020 01:19		11.03.2020 01:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.0	50.0
Total GRO-DRO		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.0	50.0
Total TPH		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 676674

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 303H CTB

012920144

11.05.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.05.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **676674**
PLU 303H CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676674. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676674 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01A	S	11.02.2020 12:05	1 ft	676674-001
FS06A	S	11.02.2020 11:25	1 ft	676674-002
FS09A	S	11.02.2020 11:10	1 ft	676674-003
FS12A	S	11.02.2020 10:30	1 ft	676674-004
BH01B	S	11.02.2020 12:40	3 ft	676674-005

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: PLU 303H CTB

Project ID: *012920144*
Work Order Number(s): *676674*

Report Date: *11.05.2020*
Date Received: *11.02.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS01A**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-001	Date Collected:	11.02.2020 12:05	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 16:33	% Moisture:	
Seq Number:	3141207			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5710**	49.5	mg/kg	11.02.2020 19:55		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.02.2020 16:30	% Moisture:	
Seq Number:	3141201			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.03.2020 00:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.03.2020 00:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.03.2020 00:19	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	11.03.2020 00:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.03.2020 00:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	11.03.2020 00:19	
o-Terphenyl	84-15-1	120	%	70-135	11.03.2020 00:19	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS01A**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-001	Date Collected:	11.02.2020 12:05	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.03.2020 09:30	% Moisture:	
Seq Number:	3141311			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.03.2020 14:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.03.2020 14:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	11.03.2020 14:18	
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.03.2020 14:18	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS06A**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-002	Date Collected:	11.02.2020 11:25	Sample Depth:	1 ft

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB
Analyst: MAB
Seq Number: 3141207

Date Prep: 11.02.2020 16:33

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4900**	50.5	mg/kg	11.02.2020 20:01		5

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: MAB
Analyst: CAC
Seq Number: 3141201

Date Prep: 11.02.2020 16:30

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.03.2020 00:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.03.2020 00:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.03.2020 00:39	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	11.03.2020 00:39	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.03.2020 00:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	11.03.2020 00:39	
o-Terphenyl	84-15-1	123	%	70-135	11.03.2020 00:39	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS06A**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-002	Date Collected:	11.02.2020 11:25	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.03.2020 09:30	% Moisture:	
Seq Number:	3141311			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.03.2020 14:40	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.03.2020 14:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.03.2020 14:40	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.03.2020 14:40	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS09A**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-003	Date Collected:	11.02.2020 11:10	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 16:33	% Moisture:	
Seq Number:	3141207			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8810**	49.6	mg/kg	11.02.2020 20:06		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.02.2020 16:30	% Moisture:	
Seq Number:	3141201			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.03.2020 00:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.03.2020 00:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.03.2020 00:59	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	11.03.2020 00:59	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.03.2020 00:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	11.03.2020 00:59	
o-Terphenyl	84-15-1	125	%	70-135	11.03.2020 00:59	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS09A**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-003	Date Collected:	11.02.2020 11:10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.03.2020 09:30	% Moisture:	
Seq Number:	3141311			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.03.2020 15:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.03.2020 15:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.03.2020 15:02	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.03.2020 15:02	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS12A**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-004	Date Collected:	11.02.2020 10:30	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 16:33	% Moisture:	
Seq Number:	3141207			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2500**	49.9	mg/kg	11.02.2020 20:11		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.02.2020 16:30	% Moisture:	
Seq Number:	3141201			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.03.2020 01:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.03.2020 01:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.03.2020 01:19	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	11.03.2020 01:19	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.03.2020 01:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.03.2020 01:19	
o-Terphenyl	84-15-1	118	%	70-135	11.03.2020 01:19	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS12A**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-004	Date Collected:	11.02.2020 10:30	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.03.2020 09:30	% Moisture:	
Seq Number:	3141311			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.03.2020 15:25	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.03.2020 15:25	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.03.2020 15:25	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.03.2020 15:25	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.03.2020 15:25	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.03.2020 15:25	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.03.2020 15:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.03.2020 15:25	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.03.2020 15:25	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**BH01B**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-005	Date Collected:	11.02.2020 12:40	Sample Depth:	3 ft

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB

Analyst: MAB — Date Prep: 11.02.2020 16:33 — % Moisture: Basis: Wet Weight

Seq Number: 3141207

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**49.8**	10.0	mg/kg	11.02.2020 20:17		1

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: MAB

Analyst: CAC — Date Prep: 11.02.2020 16:30 — % Moisture: Basis: Wet Weight

Seq Number: 3141201

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.03.2020 01:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.03.2020 01:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.03.2020 01:39	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	11.03.2020 01:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.03.2020 01:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.03.2020 01:39	
o-Terphenyl	84-15-1	122	%	70-135	11.03.2020 01:39	

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Certificate of Analytical Results 676674

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**BH01B**	Matrix:	Soil	Date Received:	11.02.2020 15:10
Lab Sample Id:	676674-005	Date Collected:	11.02.2020 12:40	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.03.2020 09:30	% Moisture:	
Seq Number:	3141311			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.03.2020 15:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.03.2020 15:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.03.2020 15:47	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.03.2020 15:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.03.2020 15:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.03.2020 15:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.03.2020 15:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.03.2020 15:47	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.03.2020 15:47	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 676674

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LT Environmental, Inc.

PLU 303H CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141207 — Matrix: Solid — Date Prep: 11.02.2020
MB Sample Id: 7714384-1-BLK — LCS Sample Id: 7714384-1-BKS — LCSD Sample Id: 7714384-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	252	101	90-110	0	20	mg/kg	11.02.2020 18:55	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141207 — Matrix: Soil — Date Prep: 11.02.2020
Parent Sample Id: 676514-005 — MS Sample Id: 676514-005 S — MSD Sample Id: 676514-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3690	199	3900	106	3880	95	90-110	1	20	mg/kg	11.02.2020 19:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141207 — Matrix: Soil — Date Prep: 11.02.2020
Parent Sample Id: 676679-001 — MS Sample Id: 676679-001 S — MSD Sample Id: 676679-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	344	200	530	93	542	99	90-110	2	20	mg/kg	11.02.2020 20:28	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141201 — Matrix: Solid — Date Prep: 11.02.2020
MB Sample Id: 7714382-1-BLK — LCS Sample Id: 7714382-1-BKS — LCSD Sample Id: 7714382-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	907	91	852	85	70-135	6	35	mg/kg	11.02.2020 18:36	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1000	100	70-135	4	35	mg/kg	11.02.2020 18:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		125		105		70-135	%	11.02.2020 18:36
o-Terphenyl	101		103		101		70-135	%	11.02.2020 18:36

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141201 — Matrix: Solid — Date Prep: 11.02.2020
MB Sample Id: 7714382-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.02.2020 18:16	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 676674

LT Environmental, Inc.

PLU 303H CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141201 Matrix: Soil Date Prep: 11.02.2020
Parent Sample Id: 676514-007 MS Sample Id: 676514-007 S MSD Sample Id: 676514-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	837	84	838	84	70-135	0	35	mg/kg	11.02.2020 19:37	
Diesel Range Organics (DRO)	<50.2	1000	910	91	927	93	70-135	2	35	mg/kg	11.02.2020 19:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		133		70-135	%	11.02.2020 19:37
o-Terphenyl	118		123		70-135	%	11.02.2020 19:37

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141311 Matrix: Solid Date Prep: 11.03.2020
MB Sample Id: 7714461-1-BLK LCS Sample Id: 7714461-1-BKS LCSD Sample Id: 7714461-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	<0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	<0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	<0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		99		104		70-130	%	11.03.2020 09:56
4-Bromofluorobenzene	110		103		110		70-130	%	11.03.2020 09:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141311 Matrix: Soil Date Prep: 11.03.2020
Parent Sample Id: 676514-007 MS Sample Id: 676514-007 S MSD Sample Id: 676514-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	<0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	<0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	<0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	<0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	11.03.2020 10:41
4-Bromofluorobenzene	107		117		70-130	%	11.03.2020 10:41

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 676674

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 West Mermond
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	enaka@ltenv.com, dmoir@ltenv.com

Work Order Comments

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

Project Name:	PLU 303H CTB	Turn Around	
Project Number:	0129201144	Routine	X
P.O. Number:	Eddy County	Rush:	
Sampler's Name:	Elizabeth Naka	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.8/1.0	Thermometer ID	
Received Intact:	(Yes) No	TNM007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	5

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
FS01 A	S	11/02/20	1205	1'	1	X	X	X	composite
FS06A			1125	1'	1	X	X	X	composite
FS09A			1110	1'	1	X	X	X	composite
FS12A			1030	1'	1	X	X	X	composite
BH01B	↓	↓	1240	3'	1	X	X	X	discrete

ANALYSIS REQUEST

Work Order Notes

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

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			11/2/20 15:10	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11.02.2020 03.10.00 PM

Work Order #: 676674

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

Temperature Measuring device used : T NM 005

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#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**
#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: Martha Castro Date: 11.02.2020

Checklist reviewed by: Jessica Kramer Date: 11.03.2020

Jessica Kramer

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Certificate of Analysis Summary 678952

LT Environmental, Inc., Arvada, CO

Project Name: PLU 303H CTB

Project Id: 012920144
Contact: Tacoma Morrissey
Project Location:

Date Received in Lab: Tue 11.24.2020 11:37
Report Date: 11.30.2020 10:28
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	678952-001					
	Field Id:	FS05A					
	Depth:	0.5- ft					
	Matrix:	SOIL					
	Sampled:	11.24.2020 09:40					
BTEX by EPA 8021B	***Extracted:***	11.24.2020 15:36					
	Analyzed:	11.24.2020 22:57					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00401 0.00401					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.002000 0.002000					
Total BTEX		<0.002000 0.002000					
Chloride by EPA 300	***Extracted:***	11.24.2020 14:00					
	Analyzed:	11.24.2020 19:00					
	Units/RL:	mg/kg RL					
Chloride		3860 49.8					
TPH by SW8015 Mod	***Extracted:***	11.24.2020 12:30					
	Analyzed:	11.24.2020 20:33					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8					
Diesel Range Organics (DRO)		<49.8 49.8					
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8					
Total GRO-DRO		<49.80 49.80					
Total TPH		<49.80 49.80					

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 678952

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

PLU 303H CTB

012920144

11.30.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.30.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **678952**
PLU 303H CTB
Project Address:

Tacoma Morrissey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678952. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678952 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 678952

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS05A	S	11.24.2020 09:40	0.5 ft	678952-001

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: PLU 303H CTB

Project ID: *012920144*
Work Order Number(s): *678952*

Report Date: *11.30.2020*
Date Received: *11.24.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 678952

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS05A**	Matrix:	Soil	Date Received:	11.24.2020 11:37
Lab Sample Id:	678952-001	Date Collected:	11.24.2020 09:40	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.24.2020 14:00	% Moisture:	
Seq Number:	3143277			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3860**	49.8	mg/kg	11.24.2020 19:00		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.24.2020 12:30	% Moisture:	
Seq Number:	3143273			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.24.2020 20:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.24.2020 20:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.24.2020 20:33	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.24.2020 20:33	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.24.2020 20:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	11.24.2020 20:33	
o-Terphenyl	84-15-1	111	%	70-135	11.24.2020 20:33	

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Certificate of Analytical Results 678952

LT Environmental, Inc., Arvada, CO

PLU 303H CTB

Sample Id:	**FS05A**	Matrix:	Soil	Date Received:	11.24.2020 11:37
Lab Sample Id:	678952-001	Date Collected:	11.24.2020 09:40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.24.2020 15:36	% Moisture:	
Seq Number:	3143258			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.24.2020 22:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.24.2020 22:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.24.2020 22:57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.24.2020 22:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.24.2020 22:57	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.24.2020 22:57	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.24.2020 22:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.24.2020 22:57	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.24.2020 22:57	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 678952

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LT Environmental, Inc.

PLU 303H CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143277 — Matrix: Solid — Date Prep: 11.24.2020
MB Sample Id: 7715945-1-BLK — LCS Sample Id: 7715945-1-BKS — LCSD Sample Id: 7715945-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	240	96	238	95	90-110	1	20	mg/kg	11.24.2020 15:42	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143277 — Matrix: Soil — Date Prep: 11.24.2020
Parent Sample Id: 678846-001 — MS Sample Id: 678846-001 S — MSD Sample Id: 678846-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2690	200	2870	90	2890	101	90-110	1	20	mg/kg	11.24.2020 16:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143277 — Matrix: Soil — Date Prep: 11.24.2020
Parent Sample Id: 678848-005 — MS Sample Id: 678848-005 S — MSD Sample Id: 678848-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.8	201	219	97	220	97	90-110	0	20	mg/kg	11.24.2020 17:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143273 — Matrix: Solid — Date Prep: 11.24.2020
MB Sample Id: 7715953-1-BLK — LCS Sample Id: 7715953-1-BKS — LCSD Sample Id: 7715953-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	1010	101	70-135	2	35	mg/kg	11.24.2020 14:06	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1140	114	70-135	9	35	mg/kg	11.24.2020 14:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		107		114		70-135	%	11.24.2020 14:06
o-Terphenyl	111		105		100		70-135	%	11.24.2020 14:06

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143273 — Matrix: Solid — Date Prep: 11.24.2020
MB Sample Id: 7715953-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.24.2020 13:46	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 678952

LT Environmental, Inc.

PLU 303H CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3143273 Matrix: Soil Date Prep: 11.24.2020
Parent Sample Id: 678851-001 MS Sample Id: 678851-001 S MSD Sample Id: 678851-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	995	1150	116	1010	101	70-135	13	35	mg/kg	11.24.2020 15:06	
Diesel Range Organics (DRO)	<49.8	995	1090	110	1130	113	70-135	4	35	mg/kg	11.24.2020 15:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		115		70-135	%	11.24.2020 15:06
o-Terphenyl	107		104		70-135	%	11.24.2020 15:06

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143258 Matrix: Solid Date Prep: 11.24.2020
MB Sample Id: 7715911-1-BLK LCS Sample Id: 7715911-1-BKS LCSD Sample Id: 7715911-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.104	104	70-130	3	35	mg/kg	11.24.2020 10:40	
Toluene	<0.00200	0.100	0.0982	98	0.0974	97	70-130	1	35	mg/kg	11.24.2020 10:40	
Ethylbenzene	<0.00200	0.100	0.101	101	0.101	101	71-129	0	35	mg/kg	11.24.2020 10:40	
m,p-Xylenes	<0.00400	0.200	0.208	104	0.205	103	70-135	1	35	mg/kg	11.24.2020 10:40	
o-Xylene	<0.00200	0.100	0.102	102	0.101	101	71-133	1	35	mg/kg	11.24.2020 10:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		102		100		70-130	%	11.24.2020 10:40
4-Bromofluorobenzene	121		110		108		70-130	%	11.24.2020 10:40

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143258 Matrix: Soil Date Prep: 11.24.2020
Parent Sample Id: 678846-001 MS Sample Id: 678846-001 S MSD Sample Id: 678846-001 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	0.107	107	0.0881	88	70-130	19	35	mg/kg	11.24.2020 13:34	
Toluene	<0.00200	0.100	0.0960	96	0.0781	78	70-130	21	35	mg/kg	11.24.2020 13:34	
Ethylbenzene	<0.00200	0.100	0.0934	93	0.0728	73	71-129	25	35	mg/kg	11.24.2020 13:34	
m,p-Xylenes	<0.00401	0.200	0.192	96	0.144	72	70-135	29	35	mg/kg	11.24.2020 13:34	
o-Xylene	<0.00200	0.100	0.0928	93	0.0711	71	71-133	26	35	mg/kg	11.24.2020 13:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		101		70-130	%	11.24.2020 13:34
4-Bromofluorobenzene	105		112		70-130	%	11.24.2020 13:34

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 678952

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com Page _____ of _____

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com

Work Order Comments

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

Project Name:	PLU 303H CTB	Turn Around	
Project Number:	012920144	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.0 / 0.8	Thermometer ID		
Received Intact:	(Yes) No		IR-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
FS05 A	S	11-24-20	0940	0.5'	1	X	X	X	Composite

ANALYSIS REQUEST

Work Order Notes

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11.24.20 1137	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11.24.2020 11.37.00 AM

Work Order #: 678952

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

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.8	
#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**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 11.24.2020

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 11.25.2020

Jessica Kramer

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

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

CONDITIONS

Action 12994

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707	5380	12994	C-141

OCD Reviewer	Condition
ceads	None