LT Environmental, Inc.
3300 North A Street, Building 1, Unit 103
Midland, Texas 79705
432.704.5178

July 11, 2019

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

RE: Closure Request
James Ranch Unit 65
Remediation Permit Number 2RP-4893
Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following report detailing excavation of impacted soil and confirmation soil sampling activities at the James Ranch Unit 65 (Site) in Unit B, Section 6, Township 23 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the excavation and soil sampling activities was to address impacts to soil following a release of crude oil and produced water from the wellhead at the Site. Based on the excavation activities and results of the soil sampling events, XTO is submitting this closure report and requesting no further action for this release event.

RELEASE BACKGROUND

On July 20, 2018, the stuffing box packing on the wellhead failed and resulted in the release of 1 barrel (bbl) of crude oil and 7 bbls of produced water. The fluids were released onto the caliche well pad in the area surrounding the wellhead. A vacuum truck was dispatched to the Site to recover free-standing fluid; approximately 0.5 bbls of crude oil and 5 bbls of produced water were recovered. The well was shut in, the stuffing box was repaired, and the well was returned to production. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on August 2, 2018, and was assigned Remediation Permit (RP) Number 2RP-4893 (Attachment 1).

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement is to ensure that reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018. The release is categorized as a Tier IV site in the Compliance Agreement, meaning remediation of the release began before prior to August 14, 2018, the effective date of 19.15.29 NMAC, however remediation was ongoing.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well is United States Geological Survey (USGS) well 321946103492001, located approximately 3,835 feet southwest of the Site, with a depth to groundwater of 145 feet bgs and a total depth of 180 feet bgs. Ground surface elevation at the water well location is 3,299 feet, which is 23 feet lower in elevation than the Site. The nearest continuously flowing water or significant watercourse to the Site is an intermittent drainage located approximately 6,184 feet 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 located within a medium potential karst area.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg);
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg;
- Total petroleum hydrocarbons (TPH): 100 mg/kg;
- Chloride: 600 mg/kg.

DELINEATION SOIL SAMPLING AND EXCAVATION ACTIVITIES

On December 13, 2018, an LTE scientist was at the Site to assess the lateral and vertical extent of impacted soil in the release area. Potholes SS01 and SS02 were advanced in the release area via track hoe to a depth of 2 feet bgs. Two delineation soil samples were collected from each pothole from depths of 1 foot and 2 feet bgs. Soil was field screened in the potholes using a PID and Hach® chloride QuanTab® test strips. Photographic documentation was conducted during the site visit. Photographs are included in Attachment 2 and the delineation soil sample locations are depicted on Figure 2. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 3.

Based on soil staining observed at the surface, XTO proceeded with excavation of impacted soil. To direct excavation activities, LTE screened soil using a PID and Hach® chloride QuanTab® test strips. Impacted soil was excavated from the release area to a depth of 1.5 feet bgs. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet

from the sidewalls and floor of the excavation. The 5-point composite samples were collected by depositing 5 aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation from depths of 0 to 1.5 feet bgs. Composite soil samples FS01 through FS05 were collected from the floor of the excavation from depths of 1.5 feet bgs. The excavation soil sample locations are depicted on Figure 3.

Field screening results for the excavation soil samples did not indicate elevated concentrations of volatile aromatic hydrocarbons or chloride. In addition, no staining or petroleum hydrocarbon odors were identified in the excavation soil samples.

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

The excavation measured approximately 1,000 square feet in area. The horizontal extent of the excavation is presented on Figure 3. A total of approximately 56 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the Lea Land landfill facility located in Hobbs, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria in delineation soil samples collected from potholes SS01 and SS02 at 1 foot and 2 feet bgs, excavation floor samples FS01 through FS05 collected at 1.5 feet bgs, and excavation sidewall samples SW01 through SW04 collected at 0 to 1.5 feet bgs. Laboratory analytical results are presented on Figure 2 and Figure 3, and summarized in Table 1. The complete laboratory analytical report is included as Attachment 4.

CONCLUSIONS

Pothole delineation soil samples were collected in the release area from depths of 1 foot and 2 feet bgs to assess for the presence or absence of impacted soil as a result of the July 20, 2018, release. Based on soil staining, excavation of impacted soil was completed. Confirmation soil samples collected from the final excavation extent indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria. No soil staining or petroleum hydrocarbon odors were identified in the excavation.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. XTO requests no further action for release number 2RP-4893. Upon approval of this closure request, XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. An updated NMOCD Form C-141 is included as Attachment 1.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Carol Ann Whaley
Staff Geologist

Ashley L. Ager, P.G.
Senior Geologist

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

Attachments:

Figure 1	Site Location Map
Figure 2	Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Initial/Final NMOCD Form C-141 (2RP-4893)
Attachment 2	Photographic Log
Attachment 3	Lithologic / Soil Sample Logs
Attachment 4	Laboratory Analytical Reports

FIGURES

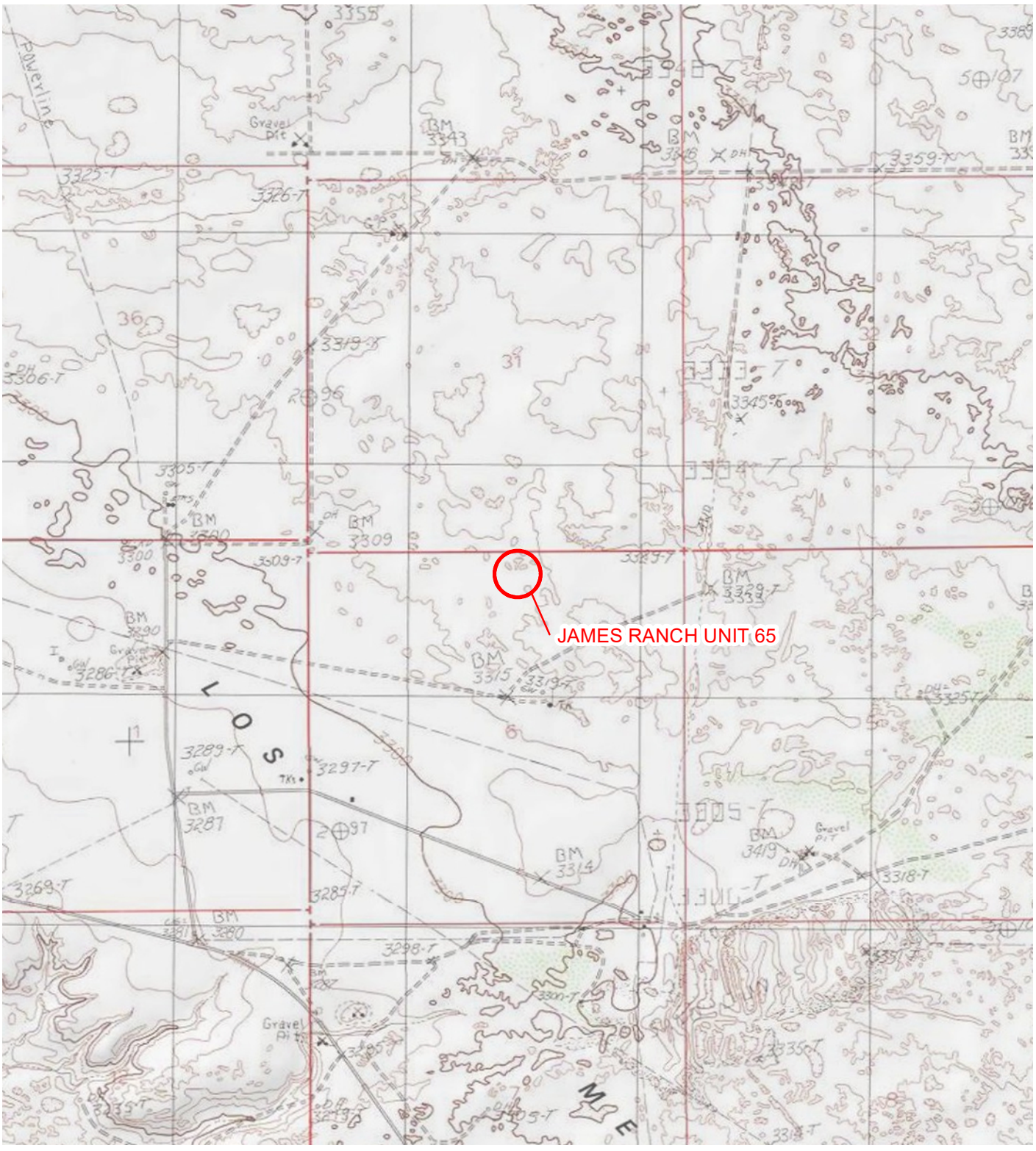


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

Feet

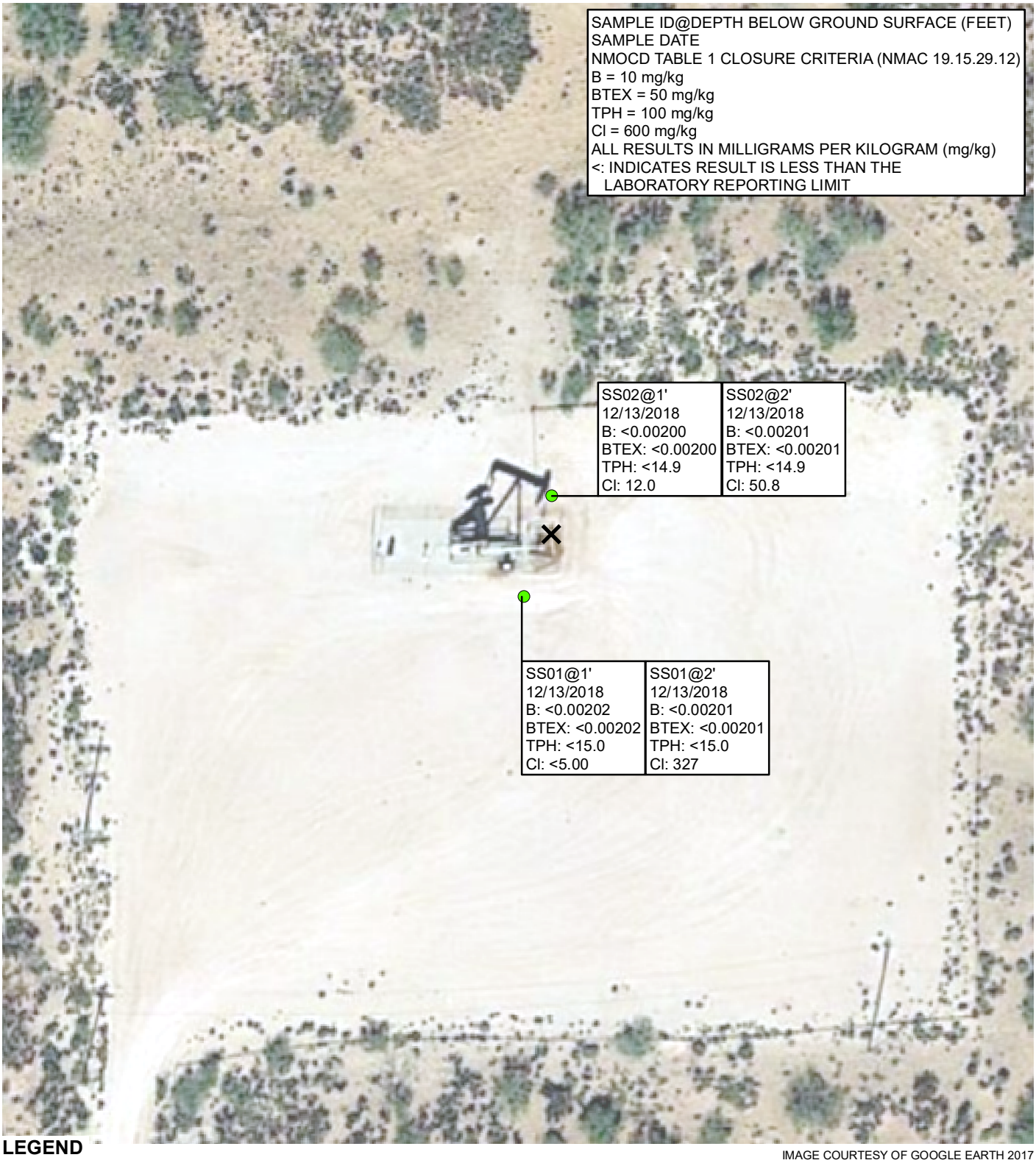
N

NEW MEXICO

NOTE: REMEDIATION PERMIT NUMBER 2RP-4893

FIGURE 1
SITE LOCATION MAP
JAMES RANCH UNIT 65
LOT 2 SEC 6 T23S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919031_JAMES RANCH UNIT 65_4893\012919031_FIG01_SL_2019_4893.mxd



LEGEND

IMAGE COURTESY OF GOOGLE EARTH 2017

✕ RELEASE LOCATION

● DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE STANDARDS

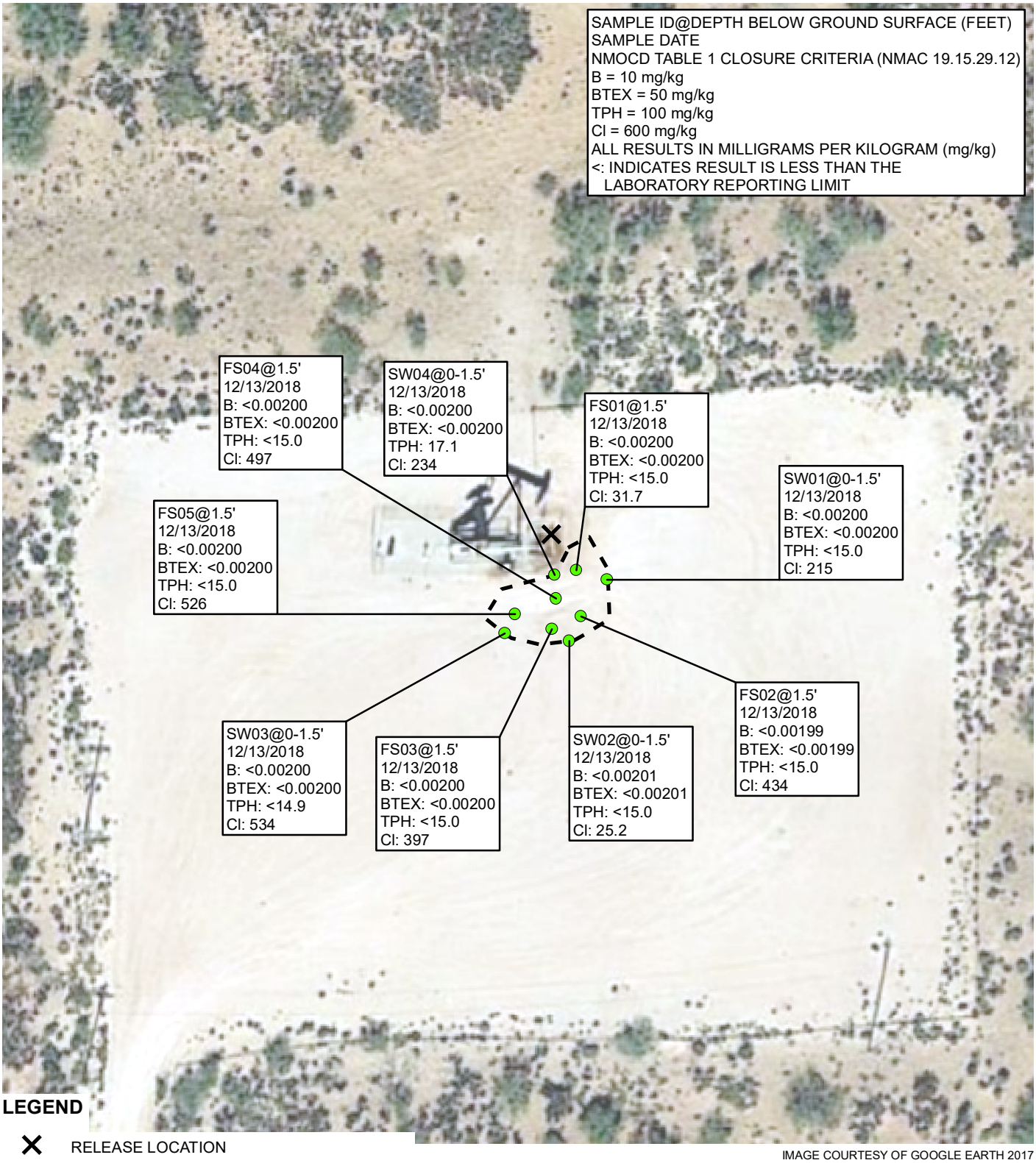
0 50 100
Feet

N

B: BENZENE
BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
TPH – TOTAL PETROLEUM HYDROCARBONS
Cl - CHLORIDE
NMAC – NEW MEXICO ADMINISTRATIVE CODE
NMOCD – NEW MEXICO OIL CONSERVATION DIVISION
NOTE: REMEDIATION PERMIT NUMBER 2RP-4893

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
JAMES RANCH UNIT 65
UNIT B SEC 6 T23S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919031_JAMES RANCH UNIT 65_4893\012919031_FIG02_DELINEATION_2019_4893_1.mxd



B: BENZENE
BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
TPH – TOTAL PETROLEUM HYDROCARBONS
Cl - CHLORIDE
NMAC – NEW MEXICO ADMINISTRATIVE CODE
NMOCD – NEW MEXICO OIL CONSERVATION DIVISION
NOTE: REMEDIATION PERMIT NUMBER 2RP-4893

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
JAMES RANCH UNIT 65
UNIT B SEC 6 T23S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919031_JAMES RANCH UNIT 65_4893\012919031_FIG03_EXCAVATION SS_2019_4893_1.mxd

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS

JAMES RANCH UNIT 65
REMEDIATION PERMIT NUMBER 2RP-4893
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	1	12/13/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
SS01	2	12/13/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	327
SS02	1	12/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	12.0
SS02	2	12/13/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	<14.9	50.8
FS01	1.5	12/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	31.7
FS02	1.5	12/13/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	434
FS03	1.5	12/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	397
FS04	1.5	12/13/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	497
FS05	1.5	12/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	526
SW01	0 - 1.5	12/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	215
SW02	0 - 1.5	12/13/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	25.2
SW03	0 - 1.5	12/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	534
SW04	0 - 1.5	12/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	17.1	<15.0	17.1	17.1	234
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	NE	100	600

Notes:
bgs - below ground surface
BTEX - benzene, toluene, ethylbenzene, and total xylenes
mg/kg - milligrams per kilogram
NE - not established
NMOCD - New Mexico Oil Conservation Division
DRO - diesel range organics
GRO - gasoline range organics
ORO - oil range organics
TPH - total petroleum hydrocarbons
Bold - indicates result exceeds the applicable regulatory standard
Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018
NMAC - New Mexico Administrative Code
< - indicates result is below laboratory reporting limits

ATTACHMENT 1: INITIAL/FINAL NMOCD FORM C-141 (2RP-4893)

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

State of New Mexico
Energy Minerals and Natural Resources

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

OCD Rec'd: 08/02/18

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

nAB1821836616

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: XTO Energy [BOPCO 260737	Contact: Kyle Littrell
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No: 432-221-7331
Facility Name: James Ranch Unit 65	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No: 30-015-27995

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	6	23S	31E	330	North	2310	East	Eddy

Latitude 32.339871 Longitude -103.815917 NAD83

NATURE OF RELEASE

Type of Release Oil and produced water	Volume of Release 1bbl oil, 7bbl produced water	Volume Recovered 0.5bbl oil, 4.5bbl water
Source of Release Wellhead	Date and Hour of Occurrence 7/20/2018, AM	Date and Hour of Discovery 7/20/2018, 8:00 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour: N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

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

Describe Cause of Problem and Remedial Action Taken.*
Release was due to stuffing box packing failure. Well was shut down, stuffing box was repaired, and well successfully restarted.

Describe Area Affected and Cleanup Action Taken.*
Fluid pooled around the wellhead, settling directly south of the pumping unit. All fluid was contained to caliche pad. Vacuum trucks were dispatched and recovered 5bbl of standing fluid. An environmental contractor has been retained to assist with remediation efforts.

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

Signature:
Printed Name: Amy Ruth
Title: Environmental Coordinator
E-mail Address: Amy_Ruth@xtoenergy.com
Date: 8/2/2018 Phone: 575-689-3380

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Maria Pruett

Approval Date: 08/03/2018 Expiration Date: N/A

Conditions of Approval:
See attached

Attached ☒ fAP-4803

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-4893
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 St, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.339871 Longitude -103.815917
(NAD 83 in decimal degrees to 5 decimal places)

Site Name James Ranch Unit 65	Site Type Exploration and Production
Date Release Discovered 7/20/2018	API# *(if applicable)* 30-015-27995

Unit Letter	Section	Township	Range	County
B	6	23S	31E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0.5
☒ Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 4.5
	Is the concentration of dissolved chloride 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

Release was due to stuffing box packing failure. Well was shut down, stuffing box was repaired, and well successfully restarted. Fluid pooled around the well head, settling directly south of the pumping unit. All fluid was contained to caliche pad. Vacuum trucks were dispatched and recovered 5 bbl of standing fluid.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4893
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? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ 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:

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: _7/11/2019_____

email: ____Kyle_Littrell@xtoenergy.com_____ Telephone: __432-221-7331_____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-4893
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	
District RP	2RP-4893
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: _7/11/2019_____

email: ____Kyle_Littrell@xtoenergy.com_____ Telephone: __432-221-7331_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4893
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: 7/11/2019

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

OCD Only

Received by: Date:

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

Closure Approved by: Brittany Hall Date: 2/24/2023

Printed Name: Brittany Hall Title: Environmental Specialist

ATTACHMENT 2: PHOTOGRAPHIC LOG

View facing west of the release area south of the wellhead.

Project: 012919031	XTO Energy, Inc. James Ranch Unit 65	LTE Advancing Opportunity
December 13, 2018	Photographic Log	

View facing northwest of the open excavation.

Project: 012919031	XTO Energy, Inc. James Ranch Unit 65	LTE Advancing Opportunity
December 13, 2018	Photographic Log	

ATTACHMENT 3: LITHOLOGIC SOIL SAMPLE LOGS

LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation	Identifier: SS01	Date: 12/13/2018
	Project Name: James Ranch Unit 65	RP Number: 2RP-4893

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: LL	Method: track hoe

Lat/Long:	Field Screening: PID/HACH	Hole Diameter:	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
					0.5			
dry	6.4	30.5	no	SS01	1	1'	SM	silty SAND, dry, dark brown, no odor
					1.5			
dry	9.4	0.0	no	SS01	2	2'	CH	CLAY, dry, brown-light brown, no odor
								Total Depth 2 feet bgs

LT Environmental, Inc. *508 West Stevens Street* *Carlsbad, New Mexico 88220* *Compliance · Engineering · Remediation*		Identifier: SS02	Date: 12/13/2018
		Project Name: James Ranch Unit 65	RP Number: 2RP-4893
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: LL	Method: track hoe
Lat/Long:	Field Screening: PID/HACH	Hole Diameter:	Total Depth: 2'
Comments:			

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
					0.5			
dry	0.3	0.0	no	SS02	1	1'	SM	silty SAND, dry, dark brown, no odor
					1.5			
dry	0.3	0.0	no	SS02	2	2'	CH	CLAY, dry, brown-light brown, no odor
								Total Depth 2 feet bgs

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS

Analytical Report 608834

for

LT Environmental, Inc.

Project Manager: Adrian Baker

JRU 65

2RP-4893

26-DEC-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

26-DEC-18

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

Reference: XENCO Report No(s): **608834**
JRU 65
Project Address: Delaware Basin

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 608834. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 608834 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

Sample Cross Reference 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	12-13-18 10:10	1 ft	608834-001
SS01	S	12-13-18 10:10	2 ft	608834-002
SS02	S	12-13-18 10:10	1 ft	608834-003
SS02	S	12-13-18 10:10	2 ft	608834-004
FS01	S	12-13-18 10:10	1.5 ft	608834-005
FS02	S	12-13-18 10:10	1.5 ft	608834-006
FS03	S	12-13-18 10:10	1.5 ft	608834-007
FS04	S	12-13-18 10:10	1.5 ft	608834-008
SW01	S	12-13-18 10:10	0 - 1.5 ft	608834-009
SW02	S	12-13-18 10:10	0 - 1.5 ft	608834-010
SW03	S	12-13-18 10:10	0 - 1.5 ft	608834-011
SW04	S	12-13-18 10:10	0 - 1.5 ft	608834-012
FS05	S	12-13-18 10:10	0 - 1.5 ft	608834-013

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: JRU 65

Project ID: *2RP-4893*
Work Order Number(s): *608834*

Report Date: *26-DEC-18*
Date Received: *12/15/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3073325 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3073331 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3073531 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 608834

LT Environmental, Inc., Arvada, CO

Project Name: JRU 65

Project Id: 2RP-4893
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Sat Dec-15-18 09:30 am
Report Date: 26-DEC-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	608834-001		608834-002		608834-003		608834-004		608834-005		608834-006	
	Field Id:	SS01		SS01		SS02		SS02		FS01		FS02	
	Depth:	1- ft		2- ft		1- ft		2- ft		1.5- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-13-18 10:10		Dec-13-18 10:10		Dec-13-18 10:10		Dec-13-18 10:10		Dec-13-18 10:10		Dec-13-18 10:10	
BTEX by EPA 8021B	***Extracted:***	Dec-18-18 16:30		Dec-18-18 16:30		Dec-18-18 16:30		Dec-18-18 16:30		Dec-18-18 16:30		Dec-18-18 16:30	
	Analyzed:	Dec-19-18 08:07		Dec-19-18 08:26		Dec-19-18 09:59		Dec-19-18 10:18		Dec-19-18 10:37		Dec-19-18 10:56	
	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	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00403	0.00403	<0.00402	0.00402	<0.00399	0.00399	<0.00402	0.00402	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Inorganic Anions by EPA 300	***Extracted:***	Dec-17-18 16:00		Dec-17-18 16:00		Dec-17-18 16:00		Dec-19-18 10:30		Dec-19-18 11:30		Dec-19-18 11:30	
	Analyzed:	Dec-18-18 04:27		Dec-18-18 04:33		Dec-18-18 04:39		Dec-19-18 17:40		Dec-19-18 18:41		Dec-19-18 18:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.00	5.00	327	4.96	12.0	4.95	50.8	4.96	31.7	4.95	434	4.95
TPH by SW8015 Mod	***Extracted:***	Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00	
	Analyzed:	Dec-22-18 23:59		Dec-23-18 01:03		Dec-23-18 01:24		Dec-23-18 01:45		Dec-23-18 02:06		Dec-23-18 02:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9	<15.0	15.0	<15.0	15.0

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

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 608834

LT Environmental, Inc., Arvada, CO

Project Name: JRU 65

Project Id: 2RP-4893
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Sat Dec-15-18 09:30 am
Report Date: 26-DEC-18
Project Manager: Jessica Kramer

Analysis Requested		608834-007		608834-008		608834-009		608834-010		608834-011		608834-012	
	Field Id:	FS03		FS04		SW01		SW02		SW03		SW04	
	Depth:	1.5- ft		1.5- ft		0-1.5 ft		0-1.5 ft		0-1.5 ft		0-1.5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-13-18 10:10		Dec-13-18 10:10		Dec-13-18 10:10		Dec-13-18 10:10		Dec-13-18 10:10		Dec-13-18 10:10	
BTEX by EPA 8021B	Extracted:	Dec-18-18 16:30		Dec-18-18 16:30		Dec-18-18 16:30		Dec-18-18 16:00		Dec-18-18 16:00		Dec-18-18 16:00	
	Analyzed:	Dec-19-18 11:15		Dec-19-18 11:34		Dec-19-18 11:53		Dec-19-18 02:28		Dec-19-18 02:47		Dec-19-18 03:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00402	0.00402	<0.00399	0.00399	<0.00402	0.00402	<0.00399	0.00399	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300	Extracted:	Dec-19-18 11:30		Dec-19-18 11:30		Dec-19-18 11:30		Dec-19-18 11:30		Dec-19-18 11:30		Dec-19-18 11:30	
	Analyzed:	Dec-19-18 18:53		Dec-19-18 18:59		Dec-19-18 19:23		Dec-19-18 18:22		Dec-19-18 19:29		Dec-19-18 19:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		397	5.00	497	5.00	215	5.00	25.2	4.96	534	4.95	234	5.00
TPH by SW8015 Mod	Extracted:	Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00		Dec-21-18 17:00	
	Analyzed:	Dec-23-18 02:48		Dec-23-18 03:09		Dec-23-18 03:30		Dec-23-18 03:51		Dec-23-18 04:53		Dec-23-18 05:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	17.1	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	17.1	15.0

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 608834

LT Environmental, Inc., Arvada, CO

Project Name: JRU 65

Project Id: 2RP-4893
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Sat Dec-15-18 09:30 am
Report Date: 26-DEC-18
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	608834-013					
	Field Id:	FS05					
	Depth:	0-1.5 ft					
	Matrix:	SOIL					
	Sampled:	Dec-13-18 10:10					
BTEX by EPA 8021B	***Extracted:***	Dec-19-18 12:00					
	Analyzed:	Dec-19-18 16:08					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00399	0.00399				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		<0.00200	0.00200				
Inorganic Anions by EPA 300	***Extracted:***	Dec-19-18 11:30					
	Analyzed:	Dec-19-18 19:41					
	Units/RL:	mg/kg	RL				
Chloride		526	5.00				
TPH by SW8015 Mod	***Extracted:***	Dec-21-18 17:00					
	Analyzed:	Dec-23-18 05:34					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0				
Total TPH		<15.0	15.0				

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-001	Date Collected:	12.13.18 10.10	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.17.18 16.00	Basis:	Wet Weight
Seq Number:	3073190				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	12.18.18 04.27	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.22.18 23.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.22.18 23.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.22.18 23.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.22.18 23.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.22.18 23.59	
o-Terphenyl	84-15-1	101	%	70-135	12.22.18 23.59	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-001	Date Collected:	12.13.18 10.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.19.18 08.07	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.19.18 08.07	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.19.18 08.07	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.19.18 08.07	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.19.18 08.07	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.19.18 08.07	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.19.18 08.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	12.19.18 08.07	
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.19.18 08.07	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-002	Date Collected:	12.13.18 10.10	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.17.18 16.00	Basis:	Wet Weight
Seq Number:	3073190				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**327**	4.96	mg/kg	12.18.18 04.33		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 01.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.23.18 01.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 01.03	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.23.18 01.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.23.18 01.03	
o-Terphenyl	84-15-1	97	%	70-135	12.23.18 01.03	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-002	Date Collected:	12.13.18 10.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.19.18 08.26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.19.18 08.26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.19.18 08.26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.19.18 08.26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.19.18 08.26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.19.18 08.26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.19.18 08.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.19.18 08.26	
1,4-Difluorobenzene	540-36-3	108	%	70-130	12.19.18 08.26	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-003	Date Collected:	12.13.18 10.10	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.17.18 16.00	Basis:	Wet Weight
Seq Number:	3073190				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.0**	4.95	mg/kg	12.18.18 04.39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.23.18 01.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.23.18 01.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.23.18 01.24	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.23.18 01.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	12.23.18 01.24	
o-Terphenyl	84-15-1	113	%	70-135	12.23.18 01.24	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-003	Date Collected:	12.13.18 10.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 09.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 09.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 09.59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.19.18 09.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 09.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 09.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 09.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	85	%	70-130	12.19.18 09.59	
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.19.18 09.59	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-004	Date Collected:	12.13.18 10.10	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 10.30	Basis:	Wet Weight
Seq Number:	3073513				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**50.8**	4.96	mg/kg	12.19.18 17.40		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.23.18 01.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.23.18 01.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.23.18 01.45	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.23.18 01.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	12.23.18 01.45	
o-Terphenyl	84-15-1	114	%	70-135	12.23.18 01.45	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-004	Date Collected:	12.13.18 10.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.19.18 10.18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.19.18 10.18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.19.18 10.18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.19.18 10.18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.19.18 10.18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.19.18 10.18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.19.18 10.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	12.19.18 10.18	
1,4-Difluorobenzene	540-36-3	108	%	70-130	12.19.18 10.18	

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JRU 65

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-005	Date Collected:	12.13.18 10.10	Sample Depth:	1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.7**	4.95	mg/kg	12.19.18 18.41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 02.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.23.18 02.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 02.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.23.18 02.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.23.18 02.06	
o-Terphenyl	84-15-1	97	%	70-135	12.23.18 02.06	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-005	Date Collected:	12.13.18 10.10	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 10.37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 10.37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 10.37	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.19.18 10.37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 10.37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 10.37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 10.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.19.18 10.37	
1,4-Difluorobenzene	540-36-3	108	%	70-130	12.19.18 10.37	

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JRU 65

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-006	Date Collected:	12.13.18 10.10	Sample Depth:	1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**434**	4.95	mg/kg	12.19.18 18.47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 02.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.23.18 02.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 02.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.23.18 02.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	12.23.18 02.27	
o-Terphenyl	84-15-1	91	%	70-135	12.23.18 02.27	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-006	Date Collected:	12.13.18 10.10	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.19.18 10.56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.19.18 10.56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.19.18 10.56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.19.18 10.56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.19.18 10.56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.19.18 10.56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.19.18 10.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	12.19.18 10.56	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.19.18 10.56	

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JRU 65

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-007	Date Collected:	12.13.18 10.10	Sample Depth:	1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**397**	5.00	mg/kg	12.19.18 18.53		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 02.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.23.18 02.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 02.48	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.23.18 02.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.23.18 02.48	
o-Terphenyl	84-15-1	102	%	70-135	12.23.18 02.48	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-007	Date Collected:	12.13.18 10.10	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 11.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 11.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 11.15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.19.18 11.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 11.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 11.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 11.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.19.18 11.15	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.19.18 11.15	

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JRU 65

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-008	Date Collected:	12.13.18 10.10	Sample Depth:	1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**497**	5.00	mg/kg	12.19.18 18.59		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 03.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.23.18 03.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 03.09	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.23.18 03.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.23.18 03.09	
o-Terphenyl	84-15-1	93	%	70-135	12.23.18 03.09	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-008	Date Collected:	12.13.18 10.10	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.19.18 11.34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.19.18 11.34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.19.18 11.34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.19.18 11.34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.19.18 11.34	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.19.18 11.34	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.19.18 11.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.19.18 11.34	
1,4-Difluorobenzene	540-36-3	104	%	70-130	12.19.18 11.34	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-009	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**215**	5.00	mg/kg	12.19.18 19.23		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 03.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.23.18 03.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 03.30	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.23.18 03.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.23.18 03.30	
o-Terphenyl	84-15-1	97	%	70-135	12.23.18 03.30	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-009	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.30	Basis:	Wet Weight
Seq Number:	3073331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 11.53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 11.53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 11.53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.19.18 11.53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 11.53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 11.53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 11.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.19.18 11.53	
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.19.18 11.53	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-010	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**25.2**	4.96	mg/kg	12.19.18 18.22		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 03.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.23.18 03.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 03.51	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.23.18 03.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	12.23.18 03.51	
o-Terphenyl	84-15-1	116	%	70-135	12.23.18 03.51	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-010	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.00	Basis:	Wet Weight
Seq Number:	3073325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.19.18 02.28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.19.18 02.28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.19.18 02.28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.19.18 02.28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.19.18 02.28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.19.18 02.28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.19.18 02.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.19.18 02.28	
1,4-Difluorobenzene	540-36-3	108	%	70-130	12.19.18 02.28	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-011	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**534**	4.95	mg/kg	12.19.18 19.29		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	12.23.18 04.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	12.23.18 04.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	12.23.18 04.53	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	12.23.18 04.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	12.23.18 04.53	
o-Terphenyl	84-15-1	90	%	70-135	12.23.18 04.53	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-011	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.00	Basis:	Wet Weight
Seq Number:	3073325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 02.47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 02.47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 02.47	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.19.18 02.47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 02.47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 02.47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 02.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	12.19.18 02.47	
1,4-Difluorobenzene	540-36-3	103	%	70-130	12.19.18 02.47	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-012	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**234**	5.00	mg/kg	12.19.18 19.35		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 05.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	**17.1**	15.0	mg/kg	12.23.18 05.13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 05.13	U	1
Total TPH	PHC635	**17.1**	15.0	mg/kg	12.23.18 05.13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.23.18 05.13	
o-Terphenyl	84-15-1	101	%	70-135	12.23.18 05.13	

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LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-012	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.18.18 16.00	Basis:	Wet Weight
Seq Number:	3073325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 03.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 03.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 03.06	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.19.18 03.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 03.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 03.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 03.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.19.18 03.06	
4-Bromofluorobenzene	460-00-4	89	%	70-130	12.19.18 03.06	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-013	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.19.18 11.30	Basis:	Wet Weight
Seq Number:	3073515				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**526**	5.00	mg/kg	12.19.18 19.41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.18 17.00	Basis:	Wet Weight
Seq Number:	3073909				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.23.18 05.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.23.18 05.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	12.23.18 05.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.23.18 05.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	12.23.18 05.34	
o-Terphenyl	84-15-1	91	%	70-135	12.23.18 05.34	

Certificate of Analytical Results 608834

LT Environmental, Inc., Arvada, CO

JRU 65

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	12.15.18 09.30
Lab Sample Id:	608834-013	Date Collected:	12.13.18 10.10	Sample Depth:	0 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.19.18 12.00	Basis:	Wet Weight
Seq Number:	3073531				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.19.18 16.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.19.18 16.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.19.18 16.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.19.18 16.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.19.18 16.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.19.18 16.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.19.18 16.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	12.19.18 16.08	
1,4-Difluorobenzene	540-36-3	106	%	70-130	12.19.18 16.08	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 608834

LT Environmental, Inc.

JRU 65

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073190 — Matrix: Solid — Date Prep: 12.17.18
MB Sample Id: 7668220-1-BLK — LCS Sample Id: 7668220-1-BKS — LCSD Sample Id: 7668220-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	274	110	274	110	90-110	0	20	mg/kg	12.18.18 01:30	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073513 — Matrix: Solid — Date Prep: 12.19.18
MB Sample Id: 7668353-1-BLK — LCS Sample Id: 7668353-1-BKS — LCSD Sample Id: 7668353-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	265	106	257	103	90-110	3	20	mg/kg	12.19.18 14:16	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073515 — Matrix: Solid — Date Prep: 12.19.18
MB Sample Id: 7668394-1-BLK — LCS Sample Id: 7668394-1-BKS — LCSD Sample Id: 7668394-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	260	104	90-110	2	20	mg/kg	12.19.18 18:10	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073190 — Matrix: Soil — Date Prep: 12.17.18
Parent Sample Id: 608832-003 — MS Sample Id: 608832-003 S — MSD Sample Id: 608832-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	53.1	250	289	94	291	95	90-110	1	20	mg/kg	12.18.18 03:20	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073190 — Matrix: Soil — Date Prep: 12.17.18
Parent Sample Id: 608888-004 — MS Sample Id: 608888-004 S — MSD Sample Id: 608888-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.850	248	248	100	254	102	90-110	2	20	mg/kg	12.18.18 01:48	

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

QC Summary 608834

LT Environmental, Inc.

JRU 65

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073513 — Matrix: Soil — Date Prep: 12.19.18
Parent Sample Id: 609017-006 — MS Sample Id: 609017-006 S — MSD Sample Id: 609017-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.8	250	269	103	274	105	90-110	2	20	mg/kg	12.19.18 14:35	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073513 — Matrix: Soil — Date Prep: 12.19.18
Parent Sample Id: 609018-006 — MS Sample Id: 609018-006 S — MSD Sample Id: 609018-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	263	105	256	102	90-110	3	20	mg/kg	12.19.18 16:06	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073515 — Matrix: Soil — Date Prep: 12.19.18
Parent Sample Id: 608834-010 — MS Sample Id: 608834-010 S — MSD Sample Id: 608834-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.2	248	276	101	281	103	90-110	2	20	mg/kg	12.19.18 18:28	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3073515 — Matrix: Soil — Date Prep: 12.19.18
Parent Sample Id: 608839-012 — MS Sample Id: 608839-012 S — MSD Sample Id: 608839-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	268	250	525	103	524	102	90-110	0	20	mg/kg	12.19.18 20:00	

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3073909 — Matrix: Solid — Date Prep: 12.21.18
MB Sample Id: 7668684-1-BLK — LCS Sample Id: 7668684-1-BKS — LCSD Sample Id: 7668684-1-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)	<8.00	1000	932	93	970	97	70-135	4	20	mg/kg	12.22.18 23:16	
Diesel Range Organics (DRO)	<8.13	1000	926	93	972	97	70-135	5	20	mg/kg	12.22.18 23:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		118		122		70-135	%	12.22.18 23:16
o-Terphenyl	105		105		111		70-135	%	12.22.18 23:16

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

QC Summary 608834

LT Environmental, Inc.

JRU 65

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3073909 | Matrix: Soil | Date Prep: 12.21.18
Parent Sample Id: 608834-001 | MS Sample Id: 608834-001 S | MSD Sample Id: 608834-001 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)	<7.98	997	952	95	932	93	70-135	2	20	mg/kg	12.23.18 09:39	
Diesel Range Organics (DRO)	<8.10	997	935	94	925	93	70-135	1	20	mg/kg	12.23.18 09:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		113		70-135	%	12.23.18 09:39
o-Terphenyl	100		98		70-135	%	12.23.18 09:39

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3073325 | Matrix: Solid | Date Prep: 12.18.18
MB Sample Id: 7668314-1-BLK | LCS Sample Id: 7668314-1-BKS | LCSD Sample Id: 7668314-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.104	104	0.0983	98	70-130	6	35	mg/kg	12.18.18 18:17	
Toluene	<0.000457	0.100	0.0939	94	0.0896	90	70-130	5	35	mg/kg	12.18.18 18:17	
Ethylbenzene	<0.000566	0.100	0.102	102	0.0979	98	70-130	4	35	mg/kg	12.18.18 18:17	
m,p-Xylenes	<0.00102	0.200	0.186	93	0.178	89	70-130	4	35	mg/kg	12.18.18 18:17	
o-Xylene	<0.000345	0.100	0.0905	91	0.0865	87	70-130	5	35	mg/kg	12.18.18 18:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		104		104		70-130	%	12.18.18 18:17
4-Bromofluorobenzene	82		88		88		70-130	%	12.18.18 18:17

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3073331 | Matrix: Solid | Date Prep: 12.18.18
MB Sample Id: 7668320-1-BLK | LCS Sample Id: 7668320-1-BKS | LCSD Sample Id: 7668320-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000384	0.0998	0.0887	89	0.0848	85	70-130	4	35	mg/kg	12.19.18 04:02	
Toluene	<0.000455	0.0998	0.0839	84	0.0803	80	70-130	4	35	mg/kg	12.19.18 04:02	
Ethylbenzene	<0.000564	0.0998	0.0897	90	0.0857	86	70-130	5	35	mg/kg	12.19.18 04:02	
m,p-Xylenes	<0.00101	0.200	0.162	81	0.155	78	70-130	4	35	mg/kg	12.19.18 04:02	
o-Xylene	<0.00200	0.0998	0.0811	81	0.0775	78	70-130	5	35	mg/kg	12.19.18 04:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		101		101		70-130	%	12.19.18 04:02
4-Bromofluorobenzene	81		86		86		70-130	%	12.19.18 04:02

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

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

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

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

QC Summary 608834

LT Environmental, Inc.

JRU 65

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3073531 — Matrix: Solid — Date Prep: 12.19.18
MB Sample Id: 7668412-1-BLK — LCS Sample Id: 7668412-1-BKS — LCSD Sample Id: 7668412-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0996	0.0912	92	0.0956	96	70-130	5	35	mg/kg	12.19.18 14:16	
Toluene	<0.000454	0.0996	0.0867	87	0.0902	90	70-130	4	35	mg/kg	12.19.18 14:16	
Ethylbenzene	<0.000563	0.0996	0.0927	93	0.0966	97	70-130	4	35	mg/kg	12.19.18 14:16	
m,p-Xylenes	<0.00101	0.199	0.169	85	0.175	88	70-130	3	35	mg/kg	12.19.18 14:16	
o-Xylene	<0.000343	0.0996	0.0816	82	0.0854	85	70-130	5	35	mg/kg	12.19.18 14:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		102		70-130	%	12.19.18 14:16
4-Bromofluorobenzene	76		84		86		70-130	%	12.19.18 14:16

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3073325 — Matrix: Soil — Date Prep: 12.18.18
Parent Sample Id: 608779-001 — MS Sample Id: 608779-001 S — MSD Sample Id: 608779-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000388	0.101	0.0904	90	0.0798	80	70-130	12	35	mg/kg	12.18.18 18:55	
Toluene	<0.000459	0.101	0.0781	77	0.0668	67	70-130	16	35	mg/kg	12.18.18 18:55	X
Ethylbenzene	<0.000569	0.101	0.0816	81	0.0672	67	70-130	19	35	mg/kg	12.18.18 18:55	X
m,p-Xylenes	<0.00102	0.202	0.150	74	0.125	63	70-130	18	35	mg/kg	12.18.18 18:55	X
o-Xylene	<0.000347	0.101	0.0748	74	0.0637	64	70-130	16	35	mg/kg	12.18.18 18:55	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		104		70-130	%	12.18.18 18:55
4-Bromofluorobenzene	89		89		70-130	%	12.18.18 18:55

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3073331 — Matrix: Soil — Date Prep: 12.18.18
Parent Sample Id: 608832-003 — MS Sample Id: 608832-003 S — MSD Sample Id: 608832-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.0523	52	0.0615	61	70-130	16	35	mg/kg	12.19.18 04:40	X
Toluene	<0.000456	0.100	0.0541	54	0.0634	63	70-130	16	35	mg/kg	12.19.18 04:40	X
Ethylbenzene	<0.000565	0.100	0.0620	62	0.0708	70	70-130	13	35	mg/kg	12.19.18 04:40	X
m,p-Xylenes	<0.00101	0.200	0.123	62	0.137	68	70-130	11	35	mg/kg	12.19.18 04:40	X
o-Xylene	<0.000344	0.100	0.0626	63	0.0700	69	70-130	11	35	mg/kg	12.19.18 04:40	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	12.19.18 04:40
4-Bromofluorobenzene	85		87		70-130	%	12.19.18 04:40

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

QC Summary 608834

LT Environmental, Inc.

JRU 65

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3073531 Matrix: Soil Date Prep: 12.19.18

Parent Sample Id: 609022-001 MS Sample Id: 609022-001 S MSD Sample Id: 609022-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000384	0.0998	0.0624	63	0.0734	73	70-130	16	35	mg/kg	12.19.18 14:54	X
Toluene	<0.000455	0.0998	0.0518	52	0.0600	59	70-130	15	35	mg/kg	12.19.18 14:54	X
Ethylbenzene	<0.000564	0.0998	0.0456	46	0.0527	52	70-130	14	35	mg/kg	12.19.18 14:54	X
m,p-Xylenes	<0.00101	0.200	0.0809	40	0.0926	46	70-130	13	35	mg/kg	12.19.18 14:54	X
o-Xylene	<0.000344	0.0998	0.0407	41	0.0466	46	70-130	14	35	mg/kg	12.19.18 14:54	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	12.19.18 14:54
4-Bromofluorobenzene	91		91		70-130	%	12.19.18 14:54

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	

Chain of Custody

Work Order No: 608834

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:	Adrian Baker	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432.704.5178	Email:	abaker@ltenv.com, llaumbach@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:	JRU 65	Turn Around	
Project Number:	2RP-4893	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Lynda Laumbach	Due Date:	12/21

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.8/3.7	Thermometer ID	R8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SS01	S	12/13/18	10:10	1'	1	X	X	X
SS01	S		10:15	2'	1	X	X	X
SS02	S		11:20	1'	1	X	X	X
SS02	S		11:30	2'	1	X	X	X
FS01	S		13:00	1.5'	1	X	X	X
FS02	S		13:10	1.5'	1	X	X	X
FS03	S		13:15	1.5'	1	X	X	X
FS04	S		13:30	1.5'	1	X	X	X
SW01	S		14:00	0-1.5'	1	X	X	X
SW02	S	↓	14:10	0-1.5'	1	X	X	X

Work Order Notes

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

Sample Comments

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	Lynda Laumbach		18:00 12/13/2018	2		12/14 14:00
3		12/15/18 9:30		4		
5				6		

Revised Date 051418 Rev. 2018.1

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Chain of Custody

Work Order No: 608834

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:	Adrian Baker	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432.704.5178	Email:	abaker@ltenv.com, llaumbach@ltenv.com

Work Order Comments

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

Project Name:	JRU 65	Turn Around	
Project Number:	2RP-4893	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Lynda Laumbach	Due Date:	12/21

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.8/3.7	Thermometer ID	R8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW03	S	12/13/18	14:40	0-1.5'	1	X	X	X
SW04	S	12/13/18	14:50	0-1.5'	1	X	X	X
FS05	S	1	1420	0-1.5'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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		18:00 12/13/18	2		12/14 1400
3		12/15/18 930			
5			6		

Revised Date 051418 Rev. 2018.1

773982118173

After printing this label:
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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12/15/2018 09:30:00 AM

Work Order #: 608834

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.7
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**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: Katie Lowe Date: 12/17/2018

Checklist reviewed by: Jessica Kramer Date: 12/18/2018

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

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

CONDITIONS

Action 190375

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 190375
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	2/24/2023