

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	NRM2020232730
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.33649 Longitude -103.83712
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Hudson 1 Fed Com 008H	Site Type	Flowline
Date Release Discovered	7/3/2020	API#	(if applicable)

Unit Letter	Section	Township	Range	County
F	1	23S	30E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 2.52	Volume Recovered (bbls) .7
☒ Produced Water	Volume Released (bbls) 15.52	Volume Recovered (bbls) 4.3
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

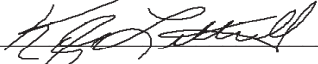
Cause of Release The 3 1/2" flow line was externally corroded causing a release in the pasture. A clamp was installed and flow line was cleared. A vacuum truck was dispatched and recovered 5 barrels of fluid. A third party contractor will be retained for remediation activities.

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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 <u>not</u> 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: <u>Kyle Littrell</u>	Title: <u>SH&E Supervisor</u>
Signature: <u></u>	Date: <u>7-14-20</u>
email: <u>Kyle_Littrell@xtoenergy.com</u>	Telephone: <u>432-221-7331</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>7/20/2020</u>

Location:	Hudson 1 Fed Com 008H	
Spill Date:	7/3/2020	
Area 1		
Approximate Area =	1358.00	sq. ft.
Average Saturation (or depth) of spill =	4.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	2.39	bbls
Total Produced Water =	14.70	bbls
Area 2		
Approximate Area =	514.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.08	bbls
Total Produced Water =	0.49	bbls
Area 3		
Approximate Area =	347.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.05	bbls
Total Produced Water =	0.33	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	2.52	bbls
Total Produced Water =	15.52	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.70	bbls
Total Produced Water =	4.30	bbls

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Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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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: _____Adrian Baker_____

Title: _____Environmental Coordinator_____

Signature: _____


Date: _____12/30/2021_____

Email: _____adrian.baker@exxonmobil.com_____

Telephone: _____432-236-3808_____

OCD Only

Received by: _____

Date: _____

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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: _____ Title: _____
Signature:  Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: _____

Printed Name: _____ Title: _____



WSP USA

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

December 30, 2021

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

**RE: Closure Request
Hudson 1 Fed Com 008H
Incident Number NRM2020232730
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request as a follow-up to the Remediation Work Plan (Work Plan) that was submitted to the New Mexico Oil Conservation Division (NMOCD) on May 25, 2021. This Closure Request details excavation and liner installation activities completed at the Hudson 1 Fed Com 008H (Site) located in Unit F, Section 1, Township 23 South, Range 30 East, in Eddy County, New Mexico following NMOCD approval of the Work Plan. Based on the additional excavation and liner installation activities described below, XTO is requesting no further action (NFA) for Incident Number NRM2020232730.

BACKGROUND

On July 3, 2020, a corroded 3.5-inch flow line resulted in the release of 2.52 barrels (bbls) of crude oil and 15.52 bbls of produced water onto the pasture area west of the pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 0.7 bbls of crude oil and 4.3 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on July 14, 2020. The release was assigned Incident Number NRM2020232730.

The release extent overlapped a historical release (Remediation Permit Number 2RP-1732) and the associated buried liners. A closure request was submitted for the historical release in December 2014 and closure was approved by NMOCD on November 4, 2015. The approximate locations of the historical buried liners are depicted on Figure 1.

Following delineation of the release extent and initial excavation, XTO submitted a Work Plan proposing to complete excavation of TPH-impacted soil and install a liner in the floor of the open excavation to join the two existing liners to mitigate deeper subsurface impacts that consisted of elevated chloride concentrations. NMOCD approved the Work Plan via email on September 20, 2021.



CLOSURE CRITERIA

The approved Work Plan detailed site characterization 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). Based on the site characterization, the following Closure Criteria were applied:

- 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

EXCAVATION AND LINER INSTALLATION ACTIVITIES

On November 18, 2021, WSP personnel were at the Site to oversee excavation of the TPH impacted soil and installation of the liner as outlined in the approved Work Plan. Laboratory analytical results, originally reported in the Work Plan, indicated that TPH concentrations exceeded the Closure Criteria in floor soil samples FS03 and FS04, collected at a depth of 4 feet bgs. Following additional excavation in the area of floor samples FS03 and FS04, WSP personnel collected subsequent floor samples FS03A and FS04A at a depth of 5 feet bgs. The excavation soil sample locations are presented on Figure 2. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were compliant with the Closure Criteria in floor samples FS03A and FS04A. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included in Attachment 1.

Following completion of the excavation activities, WSP installed a 20-mil impermeable liner in the floor of the excavation to mitigate deeper chloride impacts by restricting vertical migration of chloride through infiltration. The liner encompassed the areas where chloride impacted soil was previously identified below 4 feet bgs. The liner was installed in the floor of the excavation

District II
Page 3

at depths ranging from 4 feet to 5 feet bgs. The excavation was backfilled with non-waste containing soil and recontoured to match pre-existing conditions. The disturbed area will be re-seeded with a BLM approved seed mixture. The liner extent is depicted on Figure 2. Photo documentation was conducted during excavation and liner installation activities and a photographic log is included in Attachment 2.

CLOSURE REQUEST

Excavation and liner installation activities were conducted at the Site as outlined in the approved Work Plan. Based on the final excavation soil sample analytical results, installation of the liner, and compliance with the approved Work Plan, XTO respectfully requests NFA for Incident Number NRM2020232730.

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

Sincerely,

WSP USA, INC.

A handwritten signature in black ink, reading 'Nihaar Katoch', is positioned above a vertical yellow line.

Nihaar Katoch
Assistant Consultant, Geologist

A handwritten signature in black ink, reading 'Ashley L. Ager', is positioned above a vertical yellow line.

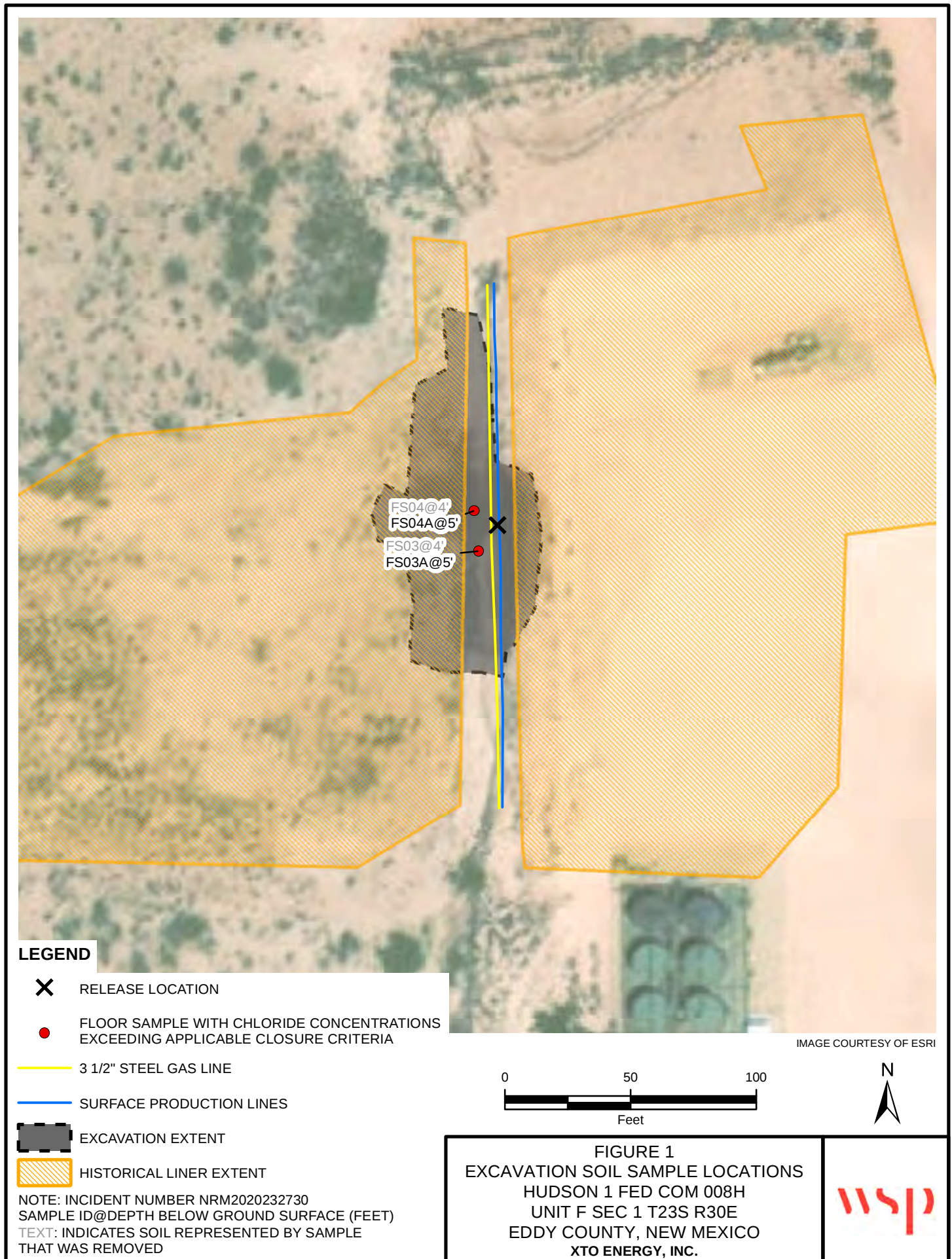
Ashley L. Ager, M.S., P.G.
Managing Director, Geologist

cc: Shelby Pennington, XTO
Adrian Baker, XTO
Bureau of Land Management

Attachments:

Figure 1 Excavation Soil Sample Locations
Figure 2 Liner Installation
Table 1 Soil Analytical Results
Attachment 1 Photographic Log
Attachment 2 Laboratory Analytical Reports

FIGURES



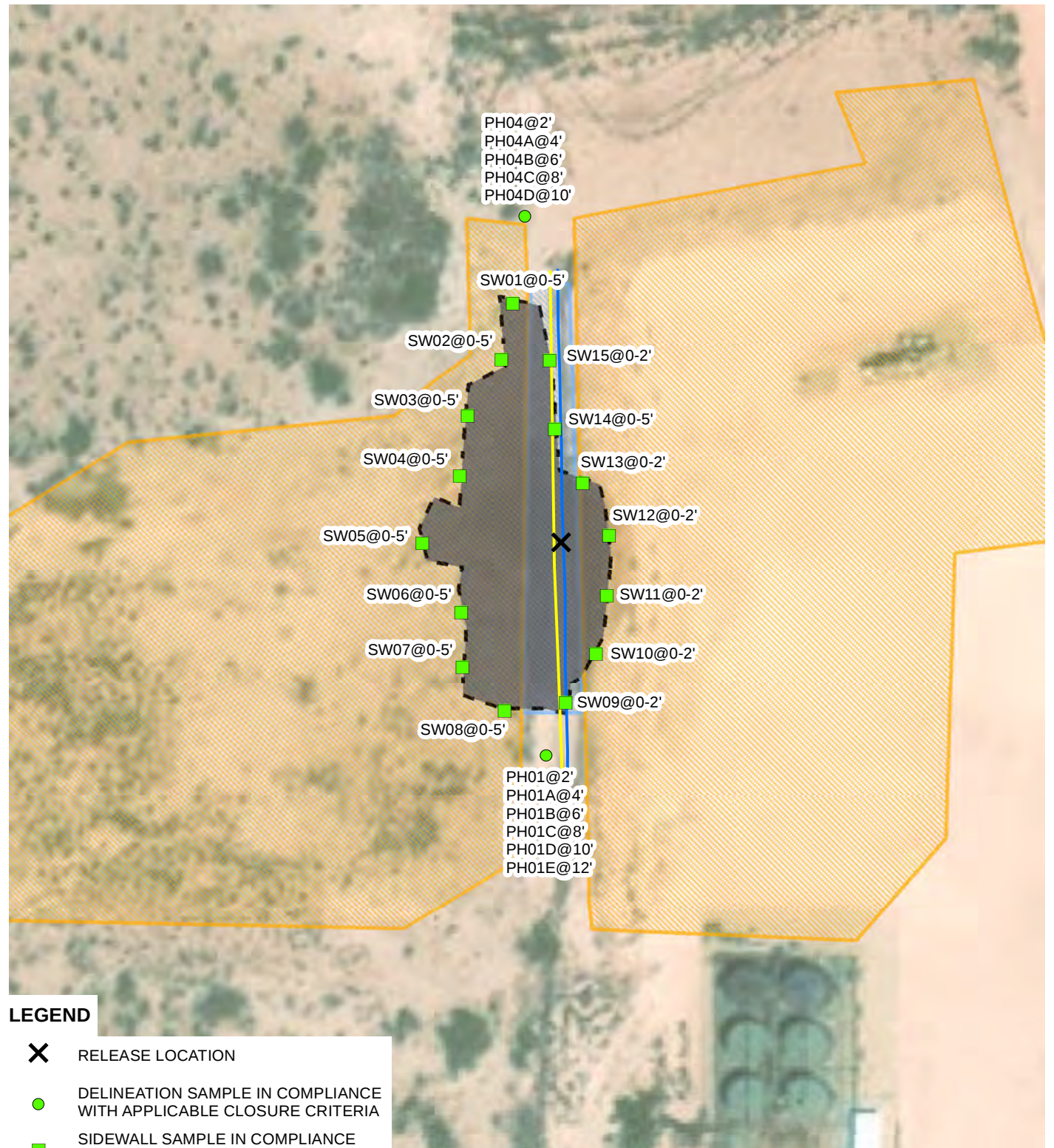


IMAGE COURTESY OF ESRI

LEGEND

RELEASE LOCATION

DELINEATION SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIASIDEWALL SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIA

3 1/2" STEEL GAS LINE

SURFACE PRODUCTION LINES



EXCAVATION EXTENT



HISTORICAL LINER EXTENT



INSTALLED LINER EXTENT

NOTE: INCIDENT NUMBER NRM2020232730

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

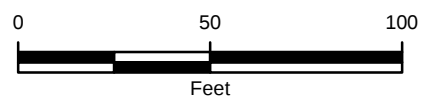


FIGURE 2
LINER INSTALLATION
HUDSON 1 FED COM 008H
UNIT F SEC 1 T23S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES

Table 1

Soil Analytical Results
Hudson 1 Fed Com 008H
Incident Number NRM2020232730
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Sidewall Samples										
SW01	09/21/2020	0 - 5	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	64.5
SW02	09/21/2020	0 - 5	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	170
SW03	09/21/2020	0 - 5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	397
SW04	09/21/2020	0 - 5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	293
SW05	09/21/2020	0 - 5	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	431
SW06	09/21/2020	0 - 5	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	28.8
SW07	09/21/2020	0 - 5	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	191
SW08	09/21/2020	0 - 5	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	134
SW09	09/22/2020	0 - 2	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	27.7
SW10	09/22/2020	0 - 2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	425
SW11	09/22/2020	0 - 2	<0.00199	<0.00199	<50.3	<50.3	<50.3	<50.3	<50.3	200
SW12	09/22/2020	0 - 2	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	226
SW13	09/22/2020	0 - 2	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	46.5
SW14	09/22/2020	0 - 5	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	222
SW15	09/22/2020	0 - 5	<0.00199	<0.00199	<50.3	<50.3	<50.3	<50.3	<50.3	331

Table 1

Soil Analytical Results
Hudson 1 Fed Com 008H
Incident Number NRM2020232730
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Samples										
FS03	05/13/2021	4	<0.00200	<0.00401	<50.0	596	133	596	729	4,380
FS03A	11/18/2021	5	<0.00201	<0.00402	<50.0	90.8	<50.0	90.8	90.8	1460
FS04	05/13/2021	4	<0.00202	0.0394	<50.0	1,970	391	1,970	2,360	13,300
FS04A	11/18/2021	5	<0.00198	<0.00397	<50.0	87.9	<50.0	87.9	87.9	761
Delineation Samples										
PH01	10/08/2020	2	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	429
PH01A	10/08/2020	4	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	593
PH01B	10/08/2020	6	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	46.6
PH01C	10/08/2020	8	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	46.8
PH01D	10/08/2020	10	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	169
PH01E	10/08/2020	12	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	235
PH04	11/18/2020	2	<0.00199	<0.001990	<49.8	<49.8	<49.8	<49.80	<49.80	544
PH04A	11/18/2020	4	<0.00200	<0.002000	<49.8	<49.8	<49.8	<49.80	<49.80	548
PH04B	11/18/2020	6	<0.00200	<0.002000	<49.9	<49.9	<49.9	<49.90	<49.90	511
PH04C	11/18/2020	8	<0.00202	<0.002020	<49.8	<49.8	<49.8	<49.80	<49.80	551
PH04D	11/18/2020	10	<0.00201	<0.002010	<50.1	<50.1	<50.1	<50.10	<50.10	498

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

Greyed data represents samples that were excavated

ATTACHMENT 1: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy	Hudson 1 Fed Com 008H Eddy County, New Mexico	NRM2020232730

Photo No.	Date	
1	September 16, 2020	
Northeast view of the excavation activities		

Photo No.	Date	
2	September 24, 2020	
Northeast view of the excavation activities		



PHOTOGRAPHIC LOG		
XTO Energy	Hudson 1 Fed Com 008H Eddy County, New Mexico	NRM2020232730

Photo No.	Date	
3	November 18, 2021	
South facing view of the liner installation		



PHOTOGRAPHIC LOG		
XTO Energy	Hudson 1 Fed Com 008H Eddy County, New Mexico	NRM2020232730

Photo No.	Date	
4	November 18, 2021	
Northeast facing view of the liner installation		A photograph showing a construction site for a liner installation. In the foreground, there are large, dark, flexible liner sheets laid out on the ground, with some reddish-brown soil piled on top of them. To the right, there are several large, black, flexible pipes or hoses. In the background, a yellow excavator is visible, and a person is standing near it. The sky is clear and blue, and the ground is dry and sandy.



PHOTOGRAPHIC LOG		
XTO Energy	Hudson 1 Fed Com 008H Eddy County, New Mexico	NRM2020232730

Photo No.	Date	
5	November 24, 2021	
Northeast facing view of backfilled excavation		

Photo No.	Date	
6	November 24, 2021	
South facing view of backfilled excavation		

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS



Certificate of Analysis Summary 673428

LT Environmental, Inc., Arvada, CO

Project Name: Hudson 1 Fed Com 008H

Project Id: 012920105

Contact: Dan Moir

Project Location:

Date Received in Lab: Wed 09.23.2020 16:40

Report Date: 09.28.2020 14:19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673428-001	673428-002	673428-003	673428-004	673428-005	673428-006
	<i>Field Id:</i>	SW01	SW02	SW03	SW04	SW05	SW06
	<i>Depth:</i>	0-5 ft	0-5 ft	0-5 ft	0-5 ft	0-5 ft	0-5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 13:00	09.21.2020 13:15	09.21.2020 13:30	09.21.2020 13:45	09.21.2020 14:00	09.21.2020 14:15
BTEX by EPA 8021B	<i>Extracted:</i>	09.25.2020 16:43	09.25.2020 16:43	09.25.2020 16:43	09.25.2020 16:43	09.25.2020 16:43	09.25.2020 16:43
	<i>Analyzed:</i>	09.26.2020 06:02	09.26.2020 06:25	09.26.2020 06:47	09.26.2020 07:10	09.26.2020 07:32	09.26.2020 07:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00401 0.00401	<0.00397 0.00397	<0.00398 0.00398	<0.00399 0.00399	<0.00400 0.00400	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30
	<i>Analyzed:</i>	09.24.2020 18:12	09.24.2020 18:29	09.24.2020 18:34	09.24.2020 18:40	09.24.2020 18:45	09.24.2020 19:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		64.5 9.90	170 10.0	397 10.0	293 9.92	431 10.1	28.8 10.1
TPH by SW8015 Mod	<i>Extracted:</i>	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30
	<i>Analyzed:</i>	09.24.2020 20:54	09.24.2020 21:55	09.24.2020 22:15	09.24.2020 22:35	09.24.2020 22:55	09.24.2020 23:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1	<50.2 50.2
Diesel Range Organics (DRO)		<50.3 50.3	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1	<50.2 50.2
Total GRO-DRO		<50.3 50.3	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1	<50.2 50.2
Total TPH		<50.3 50.3	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1	<50.2 50.2

BRL - Below Reporting Limit

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

Jessica Kramer



Certificate of Analysis Summary 673428

LT Environmental, Inc., Arvada, CO

Project Name: Hudson 1 Fed Com 008H

Project Id: 012920105

Contact: Dan Moir

Project Location:

Date Received in Lab: Wed 09.23.2020 16:40

Report Date: 09.28.2020 14:19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673428-007	673428-008	673428-009	673428-010	673428-011	673428-012
	<i>Field Id:</i>	SW07	SW08	SW09	SW10	SW11	SW12
	<i>Depth:</i>	0-5 ft	0-5 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 14:30	09.21.2020 14:45	09.22.2020 14:30	09.22.2020 14:15	09.22.2020 14:00	09.22.2020 13:45
BTEX by EPA 8021B	<i>Extracted:</i>	09.25.2020 16:43	09.25.2020 15:39	09.25.2020 15:39	09.25.2020 15:39	09.25.2020 15:39	09.25.2020 15:39
	<i>Analyzed:</i>	09.26.2020 08:17	09.26.2020 04:49	09.26.2020 05:11	09.26.2020 05:34	09.26.2020 05:56	09.26.2020 09:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00396 0.00396	<0.00403 0.00403	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30
	<i>Analyzed:</i>	09.24.2020 19:08	09.24.2020 19:13	09.24.2020 19:19	09.24.2020 19:24	09.24.2020 19:30	09.24.2020 19:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		191 9.90	134 10.0	27.7 9.92	425 10.0	200 9.98	226 10.0
TPH by SW8015 Mod	<i>Extracted:</i>	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30
	<i>Analyzed:</i>	09.24.2020 23:35	09.24.2020 23:56	09.25.2020 00:16	09.25.2020 00:36	09.25.2020 01:16	09.25.2020 01:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.1 50.1	<50.3 50.3	<50.1 50.1
Diesel Range Organics (DRO)		<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.1 50.1	<50.3 50.3	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.1 50.1	<50.3 50.3	<50.1 50.1
Total GRO-DRO		<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.1 50.1	<50.3 50.3	<50.1 50.1
Total TPH		<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.1 50.1	<50.3 50.3	<50.1 50.1

BRL - Below Reporting Limit

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

Jessica Kramer

Certificate of Analysis Summary 673428

LT Environmental, Inc., Arvada, CO

Project Name: Hudson 1 Fed Com 008H

Project Id: 012920105

Contact: Dan Moir

Project Location:

Date Received in Lab: Wed 09.23.2020 16:40

Report Date: 09.28.2020 14:19

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	673428-013	673428-014	673428-015			
	Field Id:	SW13	SW14	SW15			
	Depth:	0-2 ft	0-5 ft	0-5 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	09.22.2020 13:30	09.22.2020 15:00	09.22.2020 14:45			
BTEX by EPA 8021B	Extracted:	09.25.2020 15:39	09.25.2020 15:39	09.25.2020 15:39			
	Analyzed:	09.26.2020 06:41	09.26.2020 07:04	09.26.2020 07:26			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199			
Benzene							
Toluene							
Ethylbenzene							
m,p-Xylenes							
o-Xylene							
Total Xylenes							
Total BTEX							
Chloride by EPA 300	Extracted:	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30			
	Analyzed:	09.24.2020 19:52	09.24.2020 20:09	09.24.2020 20:15			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
		46.5 10.1	222 9.94	331 9.98			
Chloride							
TPH by SW8015 Mod	Extracted:	09.24.2020 16:30	09.24.2020 16:30	09.24.2020 16:30			
	Analyzed:	09.25.2020 01:57	09.25.2020 02:17	09.25.2020 02:37			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
		<49.8 49.8	<50.3 50.3	<50.3 50.3			
Gasoline Range Hydrocarbons (GRO)							
Diesel Range Organics (DRO)							
Motor Oil Range Hydrocarbons (MRO)							
Total GRO-DRO							
Total TPH							

BRL - Below Reporting Limit

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





Analytical Report 673428

for

LT Environmental, Inc.

Project Manager: Dan Moir

Hudson 1 Fed Com 008H

012920105

09.28.2020

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.28.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **673428**

Hudson 1 Fed Com 008H

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673428. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673428 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 673428****LT Environmental, Inc., Arvada, CO**

Hudson 1 Fed Com 008H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	09.21.2020 13:00	0 - 5 ft	673428-001
SW02	S	09.21.2020 13:15	0 - 5 ft	673428-002
SW03	S	09.21.2020 13:30	0 - 5 ft	673428-003
SW04	S	09.21.2020 13:45	0 - 5 ft	673428-004
SW05	S	09.21.2020 14:00	0 - 5 ft	673428-005
SW06	S	09.21.2020 14:15	0 - 5 ft	673428-006
SW07	S	09.21.2020 14:30	0 - 5 ft	673428-007
SW08	S	09.21.2020 14:45	0 - 5 ft	673428-008
SW09	S	09.22.2020 14:30	0 - 2 ft	673428-009
SW10	S	09.22.2020 14:15	0 - 2 ft	673428-010
SW11	S	09.22.2020 14:00	0 - 2 ft	673428-011
SW12	S	09.22.2020 13:45	0 - 2 ft	673428-012
SW13	S	09.22.2020 13:30	0 - 2 ft	673428-013
SW14	S	09.22.2020 15:00	0 - 5 ft	673428-014
SW15	S	09.22.2020 14:45	0 - 5 ft	673428-015



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Hudson 1 Fed Com 008H

Project ID: 012920105
Work Order Number(s): 673428

Report Date: 09.28.2020
Date Received: 09.23.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW01** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-001 Date Collected: 09.21.2020 13:00 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.5	9.90	mg/kg	09.24.2020 18:12		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.24.2020 20:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	09.24.2020 20:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.24.2020 20:54	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	09.24.2020 20:54	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	09.24.2020 20:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-135	09.24.2020 20:54	
o-Terphenyl	84-15-1	121	%	70-135	09.24.2020 20:54	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW01**
Lab Sample Id: 673428-001

Matrix: Soil
Date Collected: 09.21.2020 13:00

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 16:43

Basis: Wet Weight

Seq Number: 3138239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 06:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 06:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 06:02	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.26.2020 06:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 06:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 06:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 06:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.26.2020 06:02	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 06:02	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW02** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-002 Date Collected: 09.21.2020 13:15 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	170	10.0	mg/kg	09.24.2020 18:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 21:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 21:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 21:55	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	09.24.2020 21:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 21:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	09.24.2020 21:55	
o-Terphenyl	84-15-1	122	%	70-135	09.24.2020 21:55	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW02**
Lab Sample Id: 673428-002

Matrix: Soil
Date Collected: 09.21.2020 13:15

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 16:43

Basis: Wet Weight

Seq Number: 3138239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 06:25	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 06:25	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 06:25	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 06:25	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 06:25	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 06:25	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 06:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.26.2020 06:25		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 06:25		



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW03** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-003 Date Collected: 09.21.2020 13:30 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	397	10.0	mg/kg	09.24.2020 18:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.24.2020 22:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.24.2020 22:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.24.2020 22:15	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	09.24.2020 22:15	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.24.2020 22:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-135	09.24.2020 22:15	
o-Terphenyl	84-15-1	124	%	70-135	09.24.2020 22:15	



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Sample Id: **SW03**
Lab Sample Id: 673428-003

Matrix: Soil
Date Collected: 09.21.2020 13:30

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 16:43

Basis: Wet Weight

Seq Number: 3138239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 06:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 06:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 06:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 06:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 06:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 06:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 06:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	09.26.2020 06:47	
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.26.2020 06:47	



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Sample Id: **SW04** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-004 Date Collected: 09.21.2020 13:45 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	293	9.92	mg/kg	09.24.2020 18:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 22:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 22:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 22:35	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	09.24.2020 22:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 22:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	09.24.2020 22:35	
o-Terphenyl	84-15-1	120	%	70-135	09.24.2020 22:35	



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Sample Id: **SW04**
Lab Sample Id: 673428-004

Matrix: Soil
Date Collected: 09.21.2020 13:45

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 16:43

Basis: Wet Weight

Seq Number: 3138239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 07:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 07:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 07:10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.26.2020 07:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 07:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 07:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 07:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	70-130	09.26.2020 07:10		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 07:10		



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Sample Id: **SW05** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-005 Date Collected: 09.21.2020 14:00 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	431	10.1	mg/kg	09.24.2020 18:45		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.24.2020 22:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	09.24.2020 22:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	09.24.2020 22:55	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	09.24.2020 22:55	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	09.24.2020 22:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	09.24.2020 22:55	
o-Terphenyl	84-15-1	122	%	70-135	09.24.2020 22:55	



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Sample Id: **SW05**
Lab Sample Id: 673428-005

Matrix: Soil
Date Collected: 09.21.2020 14:00

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 16:43

Basis: Wet Weight

Seq Number: 3138239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 07:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 07:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 07:32	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.26.2020 07:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 07:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 07:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 07:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	70-130	09.26.2020 07:32		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 07:32		



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Sample Id: **SW06** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-006 Date Collected: 09.21.2020 14:15 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.8	10.1	mg/kg	09.24.2020 19:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.24.2020 23:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.24.2020 23:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.24.2020 23:15	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	09.24.2020 23:15	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.24.2020 23:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	09.24.2020 23:15	
o-Terphenyl	84-15-1	120	%	70-135	09.24.2020 23:15	



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Sample Id: **SW06**
Lab Sample Id: 673428-006

Matrix: Soil
Date Collected: 09.21.2020 14:15

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 16:43

Basis: Wet Weight

Seq Number: 3138239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.26.2020 07:55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.26.2020 07:55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.26.2020 07:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.26.2020 07:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.26.2020 07:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.26.2020 07:55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.26.2020 07:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	09.26.2020 07:55		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 07:55		



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Sample Id: **SW07** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-007 Date Collected: 09.21.2020 14:30 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	191	9.90	mg/kg	09.24.2020 19:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.24.2020 23:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.24.2020 23:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.24.2020 23:35	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	09.24.2020 23:35	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.24.2020 23:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	09.24.2020 23:35	
o-Terphenyl	84-15-1	122	%	70-135	09.24.2020 23:35	



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Sample Id: **SW07**
Lab Sample Id: 673428-007

Matrix: Soil
Date Collected: 09.21.2020 14:30

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 16:43

Basis: Wet Weight

Seq Number: 3138239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 08:17	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 08:17	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 08:17	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.26.2020 08:17	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 08:17	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 08:17	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 08:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	09.26.2020 08:17	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 08:17	



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Sample Id: **SW08** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-008 Date Collected: 09.21.2020 14:45 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	134	10.0	mg/kg	09.24.2020 19:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 23:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 23:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 23:56	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	09.24.2020 23:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 23:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	09.24.2020 23:56	
o-Terphenyl	84-15-1	121	%	70-135	09.24.2020 23:56	



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Sample Id: **SW08**
Lab Sample Id: 673428-008

Matrix: Soil
Date Collected: 09.21.2020 14:45

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 15:39

Basis: Wet Weight

Seq Number: 3138238

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.26.2020 04:49	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.26.2020 04:49	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.26.2020 04:49	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.26.2020 04:49	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.26.2020 04:49	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.26.2020 04:49	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.26.2020 04:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	09.26.2020 04:49		
1,4-Difluorobenzene	540-36-3	106	%	70-130	09.26.2020 04:49		



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Sample Id: **SW09** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-009 Date Collected: 09.22.2020 14:30 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.7	9.92	mg/kg	09.24.2020 19:19		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 00:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 00:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 00:16	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	09.25.2020 00:16	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 00:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	09.25.2020 00:16	
o-Terphenyl	84-15-1	122	%	70-135	09.25.2020 00:16	



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Sample Id: **SW09**
Lab Sample Id: 673428-009

Matrix: Soil
Date Collected: 09.22.2020 14:30

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 15:39

Basis: Wet Weight

Seq Number: 3138238

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 05:11	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 05:11	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 05:11	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 05:11	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 05:11	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 05:11	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 05:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	09.26.2020 05:11		
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.26.2020 05:11		



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Sample Id: **SW10** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-010 Date Collected: 09.22.2020 14:15 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	425	10.0	mg/kg	09.24.2020 19:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.25.2020 00:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	09.25.2020 00:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	09.25.2020 00:36	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	09.25.2020 00:36	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	09.25.2020 00:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	09.25.2020 00:36	
o-Terphenyl	84-15-1	118	%	70-135	09.25.2020 00:36	



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Sample Id: **SW10**
Lab Sample Id: 673428-010

Matrix: Soil
Date Collected: 09.22.2020 14:15

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 15:39

Basis: Wet Weight

Seq Number: 3138238

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 05:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 05:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 05:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.26.2020 05:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 05:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 05:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 05:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	09.26.2020 05:34	
4-Bromofluorobenzene	460-00-4	120	%	70-130	09.26.2020 05:34	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW11** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-011 Date Collected: 09.22.2020 14:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	200	9.98	mg/kg	09.24.2020 19:30		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.25.2020 01:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	09.25.2020 01:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.25.2020 01:16	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	09.25.2020 01:16	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	09.25.2020 01:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	09.25.2020 01:16	
o-Terphenyl	84-15-1	118	%	70-135	09.25.2020 01:16	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW11**
Lab Sample Id: 673428-011

Matrix: Soil
Date Collected: 09.22.2020 14:00

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 15:39

Basis: Wet Weight

Seq Number: 3138238

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 05:56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 05:56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 05:56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 05:56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 05:56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 05:56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 05:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	09.26.2020 05:56		
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.26.2020 05:56		



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW12** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-012 Date Collected: 09.22.2020 13:45 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	226	10.0	mg/kg	09.24.2020 19:47		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.25.2020 01:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	09.25.2020 01:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	09.25.2020 01:36	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	09.25.2020 01:36	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	09.25.2020 01:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	09.25.2020 01:36	
o-Terphenyl	84-15-1	122	%	70-135	09.25.2020 01:36	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW12**
Lab Sample Id: 673428-012

Matrix: Soil
Date Collected: 09.22.2020 13:45

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 15:39

Basis: Wet Weight

Seq Number: 3138238

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.26.2020 09:02	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.26.2020 09:02	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.26.2020 09:02	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.26.2020 09:02	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.26.2020 09:02	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.26.2020 09:02	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.26.2020 09:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	09.26.2020 09:02		
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.26.2020 09:02		



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW13** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-013 Date Collected: 09.22.2020 13:30 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.5	10.1	mg/kg	09.24.2020 19:52		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 01:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 01:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 01:57	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	09.25.2020 01:57	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 01:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	09.25.2020 01:57	
o-Terphenyl	84-15-1	115	%	70-135	09.25.2020 01:57	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW13**
Lab Sample Id: 673428-013

Matrix: Soil
Date Collected: 09.22.2020 13:30

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 15:39

Basis: Wet Weight

Seq Number: 3138238

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.26.2020 06:41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.26.2020 06:41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.26.2020 06:41	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.26.2020 06:41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.26.2020 06:41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.26.2020 06:41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.26.2020 06:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	09.26.2020 06:41	
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.26.2020 06:41	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW14** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-014 Date Collected: 09.22.2020 15:00 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	222	9.94	mg/kg	09.24.2020 20:09		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.25.2020 02:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	09.25.2020 02:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.25.2020 02:17	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	09.25.2020 02:17	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	09.25.2020 02:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	09.25.2020 02:17	
o-Terphenyl	84-15-1	119	%	70-135	09.25.2020 02:17	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW14**
Lab Sample Id: 673428-014

Matrix: Soil
Date Collected: 09.22.2020 15:00

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 15:39

Basis: Wet Weight

Seq Number: 3138238

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 07:04	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 07:04	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 07:04	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 07:04	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 07:04	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 07:04	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 07:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	09.26.2020 07:04	
4-Bromofluorobenzene	460-00-4	119	%	70-130	09.26.2020 07:04	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW15** Matrix: Soil Date Received: 09.23.2020 16:40
 Lab Sample Id: 673428-015 Date Collected: 09.22.2020 14:45 Sample Depth: 0 - 5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138102

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	331	9.98	mg/kg	09.24.2020 20:15		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.24.2020 16:30 Basis: Wet Weight
 Seq Number: 3138111

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.25.2020 02:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	09.25.2020 02:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.25.2020 02:37	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	09.25.2020 02:37	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	09.25.2020 02:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	09.25.2020 02:37	
o-Terphenyl	84-15-1	121	%	70-135	09.25.2020 02:37	



Certificate of Analytical Results 673428

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **SW15**
Lab Sample Id: 673428-015

Matrix: Soil
Date Collected: 09.22.2020 14:45

Date Received: 09.23.2020 16:40
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.25.2020 15:39

Basis: Wet Weight

Seq Number: 3138238

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 07:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 07:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 07:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 07:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 07:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 07:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 07:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	09.26.2020 07:26		
4-Bromofluorobenzene	460-00-4	122	%	70-130	09.26.2020 07:26		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.
Hudson 1 Fed Com 008H

Analytical Method: Chloride by EPA 300

Seq Number: 3138102

MB Sample Id: 7712042-1-BLK

Matrix: Solid

LCS Sample Id: 7712042-1-BKS

Prep Method: E300P

Date Prep: 09.24.2020

LCSD Sample Id: 7712042-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	256	102	256	102	90-110	0	20	mg/kg	09.24.2020 18:00	

Analytical Method: Chloride by EPA 300

Seq Number: 3138102

Parent Sample Id: 673428-001

Matrix: Soil

MS Sample Id: 673428-001 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673428-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	64.5	201	276	105	278	106	90-110	1	20	mg/kg	09.24.2020 18:17	

Analytical Method: Chloride by EPA 300

Seq Number: 3138102

Parent Sample Id: 673428-011

Matrix: Soil

MS Sample Id: 673428-011 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673428-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	200	200	406	103	405	103	90-110	0	20	mg/kg	09.24.2020 19:36	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138111

MB Sample Id: 7712043-1-BLK

Matrix: Solid

LCS Sample Id: 7712043-1-BKS

Prep Method: SW8015P

Date Prep: 09.24.2020

LCSD Sample Id: 7712043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1080	108	1010	101	70-135	7	35	mg/kg	09.24.2020 20:13	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1020	102	70-135	8	35	mg/kg	09.24.2020 20:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		120		128		70-135	%	09.24.2020 20:13
o-Terphenyl	102		105		100		70-135	%	09.24.2020 20:13

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138111

Matrix: Solid

MB Sample Id: 7712043-1-BLK

Prep Method: SW8015P

Date Prep: 09.24.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.24.2020 19:54	

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

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

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

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



LT Environmental, Inc.
Hudson 1 Fed Com 008H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138111

Parent Sample Id: 673428-001

Matrix: Soil

MS Sample Id: 673428-001 S

Prep Method: SW8015P

Date Prep: 09.24.2020

MSD Sample Id: 673428-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1070	107	1050	105	70-135	2	35	mg/kg	09.24.2020 21:14	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	1040	104	70-135	3	35	mg/kg	09.24.2020 21:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		129		70-135	%	09.24.2020 21:14
o-Terphenyl	128		127		70-135	%	09.24.2020 21:14

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138238

MB Sample Id: 7712176-1-BLK

Matrix: Solid

LCS Sample Id: 7712176-1-BKS

Prep Method: SW5035A

Date Prep: 09.25.2020

LCSD Sample Id: 7712176-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0987	99	0.103	103	70-130	4	35	mg/kg	09.26.2020 02:44	
Toluene	<0.00200	0.100	0.0947	95	0.0973	97	70-130	3	35	mg/kg	09.26.2020 02:44	
Ethylbenzene	<0.00200	0.100	0.0976	98	0.101	101	71-129	3	35	mg/kg	09.26.2020 02:44	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.201	101	70-135	2	35	mg/kg	09.26.2020 02:44	
o-Xylene	<0.00200	0.100	0.0986	99	0.0988	99	71-133	0	35	mg/kg	09.26.2020 02:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		102		70-130	%	09.26.2020 02:44
4-Bromofluorobenzene	115		109		109		70-130	%	09.26.2020 02:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138239

MB Sample Id: 7712177-1-BLK

Matrix: Solid

LCS Sample Id: 7712177-1-BKS

Prep Method: SW5035A

Date Prep: 09.25.2020

LCSD Sample Id: 7712177-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.115	115	70-130	10	35	mg/kg	09.25.2020 22:35	
Toluene	<0.00200	0.100	0.100	100	0.110	110	70-130	10	35	mg/kg	09.25.2020 22:35	
Ethylbenzene	<0.00200	0.100	0.0933	93	0.102	102	71-129	9	35	mg/kg	09.25.2020 22:35	
m,p-Xylenes	<0.00400	0.200	0.188	94	0.205	103	70-135	9	35	mg/kg	09.25.2020 22:35	
o-Xylene	<0.00200	0.100	0.0933	93	0.101	101	71-133	8	35	mg/kg	09.25.2020 22:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		98		70-130	%	09.25.2020 22:35
4-Bromofluorobenzene	88		90		84		70-130	%	09.25.2020 22:35

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

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

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

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



LT Environmental, Inc.
Hudson 1 Fed Com 008H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138238

Parent Sample Id: 673428-008

Matrix: Soil

MS Sample Id: 673428-008 S

Prep Method: SW5035A

Date Prep: 09.25.2020

MSD Sample Id: 673428-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.105	105	0.0983	98	70-130	7	35	mg/kg	09.26.2020 03:29	
Toluene	<0.00201	0.100	0.0978	98	0.0878	88	70-130	11	35	mg/kg	09.26.2020 03:29	
Ethylbenzene	<0.00201	0.100	0.105	105	0.0900	90	71-129	15	35	mg/kg	09.26.2020 03:29	
m,p-Xylenes	<0.00402	0.201	0.210	104	0.180	90	70-135	15	35	mg/kg	09.26.2020 03:29	
o-Xylene	<0.00201	0.100	0.104	104	0.0904	90	71-133	14	35	mg/kg	09.26.2020 03:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		96		70-130	%	09.26.2020 03:29
4-Bromofluorobenzene	114		111		70-130	%	09.26.2020 03:29

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138239

Parent Sample Id: 673399-027

Matrix: Soil

MS Sample Id: 673399-027 S

Prep Method: SW5035A

Date Prep: 09.25.2020

MSD Sample Id: 673399-027 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.128	128	0.127	127	70-130	1	35	mg/kg	09.25.2020 23:19	
Toluene	<0.00200	0.100	0.124	124	0.122	122	70-130	2	35	mg/kg	09.25.2020 23:19	
Ethylbenzene	<0.00200	0.100	0.115	115	0.113	113	71-129	2	35	mg/kg	09.25.2020 23:19	
m,p-Xylenes	<0.00400	0.200	0.232	116	0.228	114	70-135	2	35	mg/kg	09.25.2020 23:19	
o-Xylene	<0.00200	0.100	0.113	113	0.112	112	71-133	1	35	mg/kg	09.25.2020 23:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	09.25.2020 23:19
4-Bromofluorobenzene	89		95		70-130	%	09.25.2020 23:19

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

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

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

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

Work Order No: 10734178

Page 7 of 7

Work Order Comments									
Program: UST/PST ☐ RRP ☐ Brownfields ☐ RRC ☐ Superfund ☐									
State of Project:									
Reporting Level: I ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐									
Deliverables: EDD ☐ ADAPT ☐ Other: _____									

[illegible]

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

[illegible][illegible]

Signature of this document and electronic version: **1631/245.1/7470/7471: Hq**

Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			
	9:23-20 16:46		



Chain of Custody

Work Order No: 1673428

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) 794-1295
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

www.xenco.com Page 2 of 2

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

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

Project Name:	Hudson 1 Fed Com 008H	Turn Around	Routine
Project Number:	012920105	Rush:	
P.O. Number:		Due Date:	
Sampler's Name:	Spencer Lo		

SAMPLE RECEIPT	Temp Blank:	Yes	No	Well log:	Yes	No
Temperature (°C):	11.8 / 11.0	5.8 / 5.6	Thermometer ID	1-DM-007		
Received Intact:	Yes	No	Correction Factor:	-0.2		
Cooler Custody Seals:	Yes	No	Total Containers:	15		
Sample Custody Seals:	Yes	No				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (EPA 8015)	BTEX (EPA 8015)	Chloride (EPA 8015)	Sample Comments									
SW11	S	9/22/2020	1400	0-2'	1	X	X	X										
SW12	S	9/22/2020	1345	0-2'	1	X	X	X										
SW13	S	9/22/2020	1330	0-2'	1	X	X	X										
SW14	S	9/22/2020	1500	0-5'	1	X	X	X										
SW15	S	9/22/2020	1445	0-5'	1	X	X	X										
																		

Total 200.7 / 6010 200.8 / 6020:

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

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
		7-23-20 16:45			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 09.23.2020 04.40.00 PM

Work Order #: 673428

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 09.24.2020

Checklist reviewed by:



Jessica Kramer

Date: 09.25.2020



Environment Testing
America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1604-1

Laboratory Sample Delivery Group: TE012920105
Client Project/Site: Hudson 1 Fed Com 008H
Revision: 1

For:

WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Tacoma Morrissey

Authorized for release by:
11/30/2021 8:29:08 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Laboratory Job ID: 890-1604-1
SDG: TE012920105

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Job ID: 890-1604-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1604-1

REVISION

The report being provided is a revision of the original report sent on 11/22/2021. The report (revision 1) is being revised due to Per client email, requesting re run on both samples for TPH.

Report revision history

Receipt

The samples were received on 11/18/2021 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS03A (890-1604-1). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12848 and analytical batch 880-12855 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-12848/2-A) and (LCSD 880-12848/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The spike amount in the system for the MS/MSD is inadvertently doubled. The surrogate recovery for these samples is acceptable based on the actual spike amounts which should be 100 ppm and 50 ppm respectively.(890-1608-A-5-F MS) and (890-1608-A-5-F MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Client Sample ID: FS03A

Lab Sample ID: 890-1604-1

Date Collected: 11/18/21 11:00

Matrix: Solid

Date Received: 11/18/21 16:20

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/22/21 08:30	11/22/21 12:26	1
Toluene	<0.00201	U F1	0.00201	mg/Kg		11/22/21 08:30	11/22/21 12:26	1
Ethylbenzene	<0.00201	U F1	0.00201	mg/Kg		11/22/21 08:30	11/22/21 12:26	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402	mg/Kg		11/22/21 08:30	11/22/21 12:26	1
o-Xylene	<0.00201	U F1	0.00201	mg/Kg		11/22/21 08:30	11/22/21 12:26	1
Xylenes, Total	<0.00402	U F1	0.00402	mg/Kg		11/22/21 08:30	11/22/21 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	11/22/21 08:30	11/22/21 12:26	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/22/21 08:30	11/22/21 12:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.8		50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 21:59	1
Diesel Range Organics (Over C10-C28)	90.8		50.0	mg/Kg		11/24/21 08:16	11/24/21 21:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	11/24/21 08:16	11/24/21 21:59	1
o-Terphenyl	131	S1+	70 - 130	11/24/21 08:16	11/24/21 21:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		25.0	mg/Kg			11/22/21 17:17	5

Client Sample ID: FS04A

Lab Sample ID: 890-1604-2

Date Collected: 11/18/21 11:05

Matrix: Solid

Date Received: 11/18/21 16:20

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/22/21 08:30	11/22/21 12:47	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/22/21 08:30	11/22/21 12:47	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/22/21 08:30	11/22/21 12:47	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		11/22/21 08:30	11/22/21 12:47	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/22/21 08:30	11/22/21 12:47	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/22/21 08:30	11/22/21 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	11/22/21 08:30	11/22/21 12:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Client Sample ID: FS04A

Lab Sample ID: 890-1604-2

Date Collected: 11/18/21 11:05

Matrix: Solid

Date Received: 11/18/21 16:20

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	11/22/21 08:30	11/22/21 12:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/22/21 13:36	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	87.9		50.0	mg/Kg			11/19/21 13:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 22:22	1
Diesel Range Organics (Over C10-C28)	87.9		50.0	mg/Kg		11/24/21 08:16	11/24/21 22:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			11/24/21 08:16	11/24/21 22:22	1
o-Terphenyl	128		70 - 130			11/24/21 08:16	11/24/21 22:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	761		4.95	mg/Kg			11/22/21 17:39	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1604-1	FS03A	121	106
890-1604-1 MS	FS03A	106	109
890-1604-1 MSD	FS03A	110	107
890-1604-2	FS04A	124	111
LCS 880-12796/1-A	Lab Control Sample	104	107
LCSD 880-12796/2-A	Lab Control Sample Dup	106	108
MB 880-12796/5-A	Method Blank	109	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1604-1	FS03A	132 S1+	131 S1+
890-1604-2	FS04A	126	128
890-1608-A-1-E MS	Matrix Spike	110	105
890-1608-A-1-F MSD	Matrix Spike Duplicate	106	111
890-1608-A-5-F MS	Matrix Spike	59 S1-	50 S1-
890-1608-A-5-F MSD	Matrix Spike Duplicate	60 S1-	58 S1-
890-1609-A-1-K MS	Matrix Spike	127	117
890-1609-A-1-L MSD	Matrix Spike Duplicate	112	97
LCS 880-12847/2-A	Lab Control Sample	108	114
LCS 880-12848/2-A	Lab Control Sample	297 S1+	281 S1+
LCS 880-13113/2-A	Lab Control Sample	299 S1+	284 S1+
LCSD 880-12847/3-A	Lab Control Sample Dup	97	106
LCSD 880-12848/3-A	Lab Control Sample Dup	299 S1+	277 S1+
LCSD 880-13113/3-A	Lab Control Sample Dup	297 S1+	286 S1+
MB 880-12847/1-A	Method Blank	132 S1+	148 S1+
MB 880-12848/1-A	Method Blank	128	130
MB 880-13113/1-A	Method Blank	141 S1+	142 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12796/5-A

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12796

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:30	11/22/21 12:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:30	11/22/21 12:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:30	11/22/21 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/22/21 08:30	11/22/21 12:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:30	11/22/21 12:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/22/21 08:30	11/22/21 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/22/21 08:30	11/22/21 12:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/22/21 08:30	11/22/21 12:05	1

Lab Sample ID: LCS 880-12796/1-A

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1018		mg/Kg		102	70 - 130
Toluene	0.100	0.09108		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08837		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1832		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09141		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-12796/2-A

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12796

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09500		mg/Kg		95	70 - 130	7	35
Toluene	0.100	0.08552		mg/Kg		86	70 - 130	6	35
Ethylbenzene	0.100	0.08678		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1798		mg/Kg		90	70 - 130	2	35
o-Xylene	0.100	0.08882		mg/Kg		89	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1604-1 MS

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: FS03A

Prep Type: Total/NA

Prep Batch: 12796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.100	0.07245		mg/Kg		72	70 - 130
Toluene	<0.00201	U F1	0.100	0.05964	F1	mg/Kg		58	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1604-1 MS

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: FS03A

Prep Type: Total/NA

Prep Batch: 12796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U F1	0.100	0.05615	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1118	F1	mg/Kg		56	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.05493	F1	mg/Kg		54	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-1604-1 MSD

Matrix: Solid

Analysis Batch: 12902

Client Sample ID: FS03A

Prep Type: Total/NA

Prep Batch: 12796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.08173		mg/Kg		82	70 - 130	12	35
Toluene	<0.00201	U F1	0.0994	0.07197		mg/Kg		71	70 - 130	19	35
Ethylbenzene	<0.00201	U F1	0.0994	0.06480	F1	mg/Kg		65	70 - 130	14	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1341	F1	mg/Kg		67	70 - 130	18	35
o-Xylene	<0.00201	U F1	0.0994	0.06690	F1	mg/Kg		67	70 - 130	20	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12847/1-A

Matrix: Solid

Analysis Batch: 12853

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12847

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/22/21 08:30	11/22/21 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/22/21 08:30	11/22/21 10:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/22/21 08:30	11/22/21 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	11/22/21 08:30	11/22/21 10:19	1
o-Terphenyl	148	S1+	70 - 130	11/22/21 08:30	11/22/21 10:19	1

Lab Sample ID: LCS 880-12847/2-A

Matrix: Solid

Analysis Batch: 12853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	861.4		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1120		mg/Kg		112	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-12847/2-A

Matrix: Solid

Analysis Batch: 12853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12847

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-12847/3-A

Matrix: Solid

Analysis Batch: 12853

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12847

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	837.9		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1057		mg/Kg		106	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 890-1608-A-1-E MS

Matrix: Solid

Analysis Batch: 12853

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1040		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1010		mg/Kg		100	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-1608-A-1-F MSD

Matrix: Solid

Analysis Batch: 12853

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1033		mg/Kg		104	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1064		mg/Kg		105	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	111		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-12848/1-A

Matrix: Solid

Analysis Batch: 12855

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12848

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/21/21 12:42	11/22/21 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/21/21 12:42	11/22/21 10:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/21/21 12:42	11/22/21 10:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			11/21/21 12:42	11/22/21 10:19	1
o-Terphenyl	130		70 - 130			11/21/21 12:42	11/22/21 10:19	1

Lab Sample ID: LCS 880-12848/2-A

Matrix: Solid

Analysis Batch: 12855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12848

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1500	1122		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	1500	900.0	*-	mg/Kg		60	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	297	S1+	70 - 130				
o-Terphenyl	281	S1+	70 - 130				

Lab Sample ID: LCSD 880-12848/3-A

Matrix: Solid

Analysis Batch: 12855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1500	1149		mg/Kg		77	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1500	889.2	*-	mg/Kg		59	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	299	S1+	70 - 130						
o-Terphenyl	277	S1+	70 - 130						

Lab Sample ID: 890-1608-A-5-F MS

Matrix: Solid

Analysis Batch: 12855

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12848

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	499	1262	F1	mg/Kg		246	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2 *-	499	1122	F1	mg/Kg		220	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1608-A-5-F MS

Matrix: Solid

Analysis Batch: 12855

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12848

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	59	S1-	70 - 130
o-Terphenyl	50	S1-	70 - 130

Lab Sample ID: 890-1608-A-5-F MSD

Matrix: Solid

Analysis Batch: 12855

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12848

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	499	396.3	F2	mg/Kg		73	70 - 130	104	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2 *	499	78.61	F1 F2	mg/Kg		10	70 - 130	174	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	60	S1-	70 - 130
o-Terphenyl	58	S1-	70 - 130

Lab Sample ID: MB 880-13113/1-A

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13113

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 13:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 13:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/21 08:16	11/24/21 13:24	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	141	S1+	70 - 130	11/24/21 08:16	11/24/21 13:24	1		
o-Terphenyl	142	S1+	70 - 130	11/24/21 08:16	11/24/21 13:24	1		

Lab Sample ID: LCS 880-13113/2-A

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	976.6		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	913.3		mg/Kg		91	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	299	S1+	70 - 130
o-Terphenyl	284	S1+	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-13113/3-A

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13113

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	963.4		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	910.4		mg/Kg		91	70 - 130	0	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	297	S1+	70 - 130						
o-Terphenyl	286	S1+	70 - 130						

Lab Sample ID: 890-1609-A-1-K MS

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13113

Top Bottom 10/10										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	997	1262		mg/Kg		124	70 - 130	
Diesel Range Organics (Over C10-C28)	187		997	1242		mg/Kg		106	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane	127		70 - 130							
o-Terphenyl	117		70 - 130							

Lab Sample ID: 890-1609-A-1-L MSD

Matrix: Solid

Analysis Batch: 13221

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	1717	F1 F2	mg/Kg		170	70 - 130	31	20
Diesel Range Organics (Over C10-C28)	187		999	1101		mg/Kg		91	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12936/1-A

Matrix: Solid

Analysis Batch: 12958

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/22/21 14:42	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-12936/2-A

Matrix: Solid

Analysis Batch: 12958

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-12936/3-A

Matrix: Solid

Analysis Batch: 12958

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	264.5		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-1604-1 MS

Matrix: Solid

Analysis Batch: 12958

Client Sample ID: FS03A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1460		1250	2635		mg/Kg		94	90 - 110

Lab Sample ID: 890-1604-1 MSD

Matrix: Solid

Analysis Batch: 12958

Client Sample ID: FS03A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1460		1250	2634		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

GC VOA

Prep Batch: 12796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1	FS03A	Total/NA	Solid	5035	
890-1604-2	FS04A	Total/NA	Solid	5035	
MB 880-12796/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12796/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12796/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1604-1 MS	FS03A	Total/NA	Solid	5035	
890-1604-1 MSD	FS03A	Total/NA	Solid	5035	

Analysis Batch: 12902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1	FS03A	Total/NA	Solid	8021B	12796
890-1604-2	FS04A	Total/NA	Solid	8021B	12796
MB 880-12796/5-A	Method Blank	Total/NA	Solid	8021B	12796
LCS 880-12796/1-A	Lab Control Sample	Total/NA	Solid	8021B	12796
LCSD 880-12796/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12796
890-1604-1 MS	FS03A	Total/NA	Solid	8021B	12796
890-1604-1 MSD	FS03A	Total/NA	Solid	8021B	12796

Analysis Batch: 12945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1	FS03A	Total/NA	Solid	Total BTEX	
890-1604-2	FS04A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 12781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1	FS03A	Total/NA	Solid	8015 NM	
890-1604-2	FS04A	Total/NA	Solid	8015 NM	

Prep Batch: 12847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12847/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12847/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1608-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1608-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 12848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1608-A-5-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1608-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12847/1-A	Method Blank	Total/NA	Solid	8015B NM	12847
LCS 880-12847/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12847
LCSD 880-12847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12847

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

GC Semi VOA (Continued)

Analysis Batch: 12853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1608-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	12847
890-1608-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	12847

Analysis Batch: 12855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12848/1-A	Method Blank	Total/NA	Solid	8015B NM	12848
LCS 880-12848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12848
LCSD 880-12848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12848
890-1608-A-5-F MS	Matrix Spike	Total/NA	Solid	8015B NM	12848
890-1608-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	12848

Prep Batch: 13113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1	FS03A	Total/NA	Solid	8015NM Prep	
890-1604-2	FS04A	Total/NA	Solid	8015NM Prep	
MB 880-13113/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13113/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1609-A-1-K MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1609-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1	FS03A	Total/NA	Solid	8015B NM	13113
890-1604-2	FS04A	Total/NA	Solid	8015B NM	13113
MB 880-13113/1-A	Method Blank	Total/NA	Solid	8015B NM	13113
LCS 880-13113/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13113
LCSD 880-13113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13113
890-1609-A-1-K MS	Matrix Spike	Total/NA	Solid	8015B NM	13113
890-1609-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13113

HPLC/IC

Leach Batch: 12936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1	FS03A	Soluble	Solid	DI Leach	
890-1604-2	FS04A	Soluble	Solid	DI Leach	
MB 880-12936/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12936/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12936/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1604-1 MS	FS03A	Soluble	Solid	DI Leach	
890-1604-1 MSD	FS03A	Soluble	Solid	DI Leach	

Analysis Batch: 12958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1	FS03A	Soluble	Solid	300.0	12936
890-1604-2	FS04A	Soluble	Solid	300.0	12936
MB 880-12936/1-A	Method Blank	Soluble	Solid	300.0	12936
LCS 880-12936/2-A	Lab Control Sample	Soluble	Solid	300.0	12936
LCSD 880-12936/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12936
890-1604-1 MS	FS03A	Soluble	Solid	300.0	12936

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

HPLC/IC (Continued)

Analysis Batch: 12958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1604-1 MSD	FS03A	Soluble	Solid	300.0	12936

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Client Sample ID: FS03A

Lab Sample ID: 890-1604-1

Date Collected: 11/18/21 11:00

Matrix: Solid

Date Received: 11/18/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12796	11/22/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	12902	11/22/21 12:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13113	11/24/21 08:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13221	11/24/21 21:59	AJ	XEN MID
Soluble	Leach	DI Leach			12936	11/22/21 12:15	CA	XEN MID
Soluble	Analysis	300.0		5	12958	11/22/21 17:17	SC	XEN MID

Client Sample ID: FS04A

Lab Sample ID: 890-1604-2

Date Collected: 11/18/21 11:05

Matrix: Solid

Date Received: 11/18/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12796	11/22/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	12902	11/22/21 12:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12945	11/22/21 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12781	11/19/21 13:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13113	11/24/21 08:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13221	11/24/21 22:22	AJ	XEN MID
Soluble	Leach	DI Leach			12936	11/22/21 12:15	CA	XEN MID
Soluble	Analysis	300.0		1	12958	11/22/21 17:39	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: Hudson 1 Fed Com 008H

Job ID: 890-1604-1
SDG: TE012920105

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1604-1	FS03A	Solid	11/18/21 11:00	11/18/21 16:20	5
890-1604-2	FS04A	Solid	11/18/21 11:05	11/18/21 16:20	5

1

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13

14



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (602-352-7550) Atlanta, GA (770-449-8800) Tampa, FL (813) 233-3827
Hobbs, NM (505) 392-7550

Chain of Custody

Work Order No:

www.xenco.com

Page 1 of 1

Project Manager:	Tacomma Morrissey	Bill to: (if different)	Kyle Littlell
Company Name:	WSP USA Inc.	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	gonner.shore@wsp.com; tacomma.morrissey@wsp.com

Work Order Comments									
Program: UST/ST ☐ PRP ☐ brownfields ☐ RC ☐ superfund ☐									
State of Project:									
Reporting Level: I ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐									
Deliverables: EDD ☐ ADAPT ☐ Other: _____									

Project Name:	Hudson 1 Fed Com 008H	Turn Around
Project Number:	TE012920105	Routine ☐
P.O. Number:	Cost Center: 1139061001	Rush ☒ 24 Hours
Sampler's Name:	Conner Shore	Due Date:

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	2.4/2.2		☒	☐		☒	☐
Received Intact:	☒ Yes	☐ No	Thermometer ID 1111111111				
Cooler Custody Seals:	Yes	No	N/A		Correction Factor:	-0.2	
Sample Custody Seals:	Yes	No	☒ N/A		Total Containers:		

[illegible][illegible][illegible]

Total 200.7 / 6010 200.8 / 6020:
Circle Method(s) and Metal(s) to be

8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U																															
1631 / 245.1 / 7470 / 72																															

1631 / 245.1 / 7470 / 7471 : Hg

of service. Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Carrie Smith</i>	<i>Dee Cady</i>	11.18.21 1020			

Revised Date 05/14/18 Rev. 2018

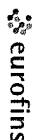
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1604-1
SDG Number: TE012920105**Login Number: 1604****List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1604-1
SDG Number: TE012920105

Login Number: 1604

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/22/21 08:09 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2/4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Certificate of Analysis Summary 674825

LT Environmental, Inc., Arvada, CO

Project Name: Hudson #1 Fed Com 008H

Project Id: 012920105

Date Received in Lab: Fri 10.09.2020 13:40

Contact: Dan Moir

Report Date: 10.12.2020 16:34

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674825-001	674825-002	674825-003	674825-004	674825-005	674825-006
	<i>Field Id:</i>	PH01	PH01 A	PH01 B	PH01 C	PH01 D	PH01 E
	<i>Depth:</i>	2- ft	4- ft	6- ft	8- ft	10- ft	12- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.08.2020 10:00	10.08.2020 10:10	10.08.2020 10:20	10.08.2020 10:30	10.08.2020 10:40	10.08.2020 10:50
BTEX by EPA 8021B	<i>Extracted:</i>	10.09.2020 18:41	10.09.2020 18:41	10.09.2020 18:41	10.09.2020 18:41	10.09.2020 18:41	10.09.2020 18:41
	<i>Analyzed:</i>	10.10.2020 07:10	10.10.2020 07:33	10.10.2020 07:55	10.10.2020 08:17	10.10.2020 08:40	10.10.2020 09:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00396 0.00396	<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	10.09.2020 16:36	10.09.2020 16:36	10.09.2020 16:36	10.09.2020 16:36	10.09.2020 16:36	10.09.2020 16:36
	<i>Analyzed:</i>	10.09.2020 19:24	10.09.2020 19:30	10.09.2020 19:35	10.09.2020 19:40	10.09.2020 19:46	10.09.2020 19:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		429 9.98	593 9.92	46.6 9.96	46.8 9.98	169 9.98	235 9.96
TPH by SW8015 Mod	<i>Extracted:</i>	10.09.2020 17:30	10.09.2020 17:30	10.09.2020 17:30	10.09.2020 17:30	10.09.2020 17:30	10.09.2020 17:30
	<i>Analyzed:</i>	10.10.2020 06:50	10.10.2020 06:30	10.10.2020 06:10	10.10.2020 05:28	10.10.2020 05:08	10.10.2020 04:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<49.8 49.8	<50.2 50.2	<50.1 50.1	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<50.2 50.2	<49.8 49.8	<50.2 50.2	<50.1 50.1	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<49.8 49.8	<50.2 50.2	<50.1 50.1	<49.8 49.8	<50.0 50.0
Total GRO-DRO		<50.2 50.2	<49.8 49.8	<50.2 50.2	<50.1 50.1	<49.8 49.8	<50.0 50.0
Total TPH		<50.2 50.2	<49.8 49.8	<50.2 50.2	<50.1 50.1	<49.8 49.8	<50.0 50.0

BRL - Below Reporting Limit

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

Jessica Kramer



Analytical Report 674825

for

LT Environmental, Inc.

Project Manager: Dan Moir

Hudson #1 Fed Com 008H

012920105

10.12.2020

Collected By: Client

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

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

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

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



10.12.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **674825**

Hudson #1 Fed Com 008H

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674825. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674825 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 674825****LT Environmental, Inc., Arvada, CO**

Hudson #1 Fed Com 008H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10.08.2020 10:00	2 ft	674825-001
PH01 A	S	10.08.2020 10:10	4 ft	674825-002
PH01 B	S	10.08.2020 10:20	6 ft	674825-003
PH01 C	S	10.08.2020 10:30	8 ft	674825-004
PH01 D	S	10.08.2020 10:40	10 ft	674825-005
PH01 E	S	10.08.2020 10:50	12 ft	674825-006



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Hudson #1 Fed Com 008H

Project ID: 012920105
Work Order Number(s): 674825

Report Date: 10.12.2020
Date Received: 10.09.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01**
Lab Sample Id: 674825-001

Matrix: Soil
Date Collected: 10.08.2020 10:00

Date Received: 10.09.2020 13:40
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3139363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	429	9.98	mg/kg	10.09.2020 19:24		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.09.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3139408

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.10.2020 06:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.10.2020 06:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.10.2020 06:50	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.10.2020 06:50	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.10.2020 06:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	10.10.2020 06:50	
o-Terphenyl	84-15-1	108	%	70-135	10.10.2020 06:50	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01**
Lab Sample Id: 674825-001

Matrix: Soil
Date Collected: 10.08.2020 10:00

Date Received: 10.09.2020 13:40
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 18:41

% Moisture:
Basis: Wet Weight

Seq Number: 3139372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.10.2020 07:10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.10.2020 07:10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.10.2020 07:10	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.10.2020 07:10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.10.2020 07:10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.10.2020 07:10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.10.2020 07:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	10.10.2020 07:10	
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.10.2020 07:10	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 A**
Lab Sample Id: 674825-002

Matrix: Soil
Date Collected: 10.08.2020 10:10

Date Received: 10.09.2020 13:40
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3139363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	593	9.92	mg/kg	10.09.2020 19:30		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.09.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3139408

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.10.2020 06:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.10.2020 06:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.10.2020 06:30	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.10.2020 06:30	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.10.2020 06:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	10.10.2020 06:30	
o-Terphenyl	84-15-1	85	%	70-135	10.10.2020 06:30	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 A**
Lab Sample Id: 674825-002

Matrix: Soil
Date Collected: 10.08.2020 10:10

Date Received: 10.09.2020 13:40
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 18:41

% Moisture:
Basis: Wet Weight

Seq Number: 3139372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.10.2020 07:33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.10.2020 07:33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.10.2020 07:33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.10.2020 07:33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.10.2020 07:33	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.10.2020 07:33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.10.2020 07:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.10.2020 07:33	
4-Bromofluorobenzene	460-00-4	116	%	70-130	10.10.2020 07:33	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 B**
Lab Sample Id: 674825-003

Matrix: Soil
Date Collected: 10.08.2020 10:20

Date Received: 10.09.2020 13:40
Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3139363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.6	9.96	mg/kg	10.09.2020 19:35		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.09.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3139408

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.10.2020 06:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.10.2020 06:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.10.2020 06:10	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.10.2020 06:10	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.10.2020 06:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	10.10.2020 06:10	
o-Terphenyl	84-15-1	82	%	70-135	10.10.2020 06:10	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 B**
Lab Sample Id: 674825-003

Matrix: Soil
Date Collected: 10.08.2020 10:20

Date Received: 10.09.2020 13:40
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 18:41

% Moisture:
Basis: Wet Weight

Seq Number: 3139372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.10.2020 07:55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.10.2020 07:55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.10.2020 07:55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.10.2020 07:55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.10.2020 07:55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.10.2020 07:55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.10.2020 07:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	10.10.2020 07:55		
1,4-Difluorobenzene	540-36-3	111	%	70-130	10.10.2020 07:55		



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 C**
Lab Sample Id: 674825-004

Matrix: Soil
Date Collected: 10.08.2020 10:30

Date Received: 10.09.2020 13:40
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3139363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.8	9.98	mg/kg	10.09.2020 19:40		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.09.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3139408

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.10.2020 05:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.10.2020 05:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.10.2020 05:28	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.10.2020 05:28	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.10.2020 05:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.10.2020 05:28	
o-Terphenyl	84-15-1	97	%	70-135	10.10.2020 05:28	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 C**
Lab Sample Id: 674825-004

Matrix: Soil
Date Collected: 10.08.2020 10:30

Date Received: 10.09.2020 13:40
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 18:41

% Moisture:
Basis: Wet Weight

Seq Number: 3139372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.10.2020 08:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.10.2020 08:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.10.2020 08:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.10.2020 08:17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.10.2020 08:17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.10.2020 08:17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.10.2020 08:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.10.2020 08:17	
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.10.2020 08:17	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 D**
Lab Sample Id: 674825-005

Matrix: Soil
Date Collected: 10.08.2020 10:40

Date Received: 10.09.2020 13:40
Sample Depth: 10 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3139363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	169	9.98	mg/kg	10.09.2020 19:46		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.09.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3139408

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.10.2020 05:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.10.2020 05:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.10.2020 05:08	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.10.2020 05:08	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.10.2020 05:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.10.2020 05:08	
o-Terphenyl	84-15-1	105	%	70-135	10.10.2020 05:08	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 D**
Lab Sample Id: 674825-005

Matrix: Soil
Date Collected: 10.08.2020 10:40

Date Received: 10.09.2020 13:40
Sample Depth: 10 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 18:41

% Moisture:
Basis: Wet Weight

Seq Number: 3139372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.10.2020 08:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.10.2020 08:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.10.2020 08:40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.10.2020 08:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.10.2020 08:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.10.2020 08:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.10.2020 08:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.10.2020 08:40		
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.10.2020 08:40		



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 E**
Lab Sample Id: 674825-006

Matrix: Soil
Date Collected: 10.08.2020 10:50

Date Received: 10.09.2020 13:40
Sample Depth: 12 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3139363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	235	9.96	mg/kg	10.09.2020 19:51		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.09.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3139408

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.10.2020 04:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.10.2020 04:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.10.2020 04:47	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.10.2020 04:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.10.2020 04:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-135	10.10.2020 04:47	
o-Terphenyl	84-15-1	86	%	70-135	10.10.2020 04:47	



Certificate of Analytical Results 674825

LT Environmental, Inc., Arvada, CO

Hudson #1 Fed Com 008H

Sample Id: **PH01 E**
Lab Sample Id: 674825-006

Matrix: Soil
Date Collected: 10.08.2020 10:50

Date Received: 10.09.2020 13:40
Sample Depth: 12 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.09.2020 18:41

% Moisture:
Basis: Wet Weight

Seq Number: 3139372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.10.2020 09:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.10.2020 09:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.10.2020 09:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.10.2020 09:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.10.2020 09:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.10.2020 09:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.10.2020 09:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	10.10.2020 09:02		
4-Bromofluorobenzene	460-00-4	118	%	70-130	10.10.2020 09:02		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.
Hudson #1 Fed Com 008H

Analytical Method: Chloride by EPA 300

Seq Number: 3139363

MB Sample Id: 7713002-1-BLK

Matrix: Solid

LCS Sample Id: 7713002-1-BKS

Prep Method: E300P

Date Prep: 10.09.2020

LCSD Sample Id: 7713002-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	262	105	264	106	90-110	1	20	mg/kg	10.09.2020 17:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3139363

Parent Sample Id: 674817-001

Matrix: Soil

MS Sample Id: 674817-001 S

Prep Method: E300P

Date Prep: 10.09.2020

MSD Sample Id: 674817-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	51.2	200	259	104	261	105	90-110	1	20	mg/kg	10.09.2020 17:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3139363

Parent Sample Id: 674822-001

Matrix: Soil

MS Sample Id: 674822-001 S

Prep Method: E300P

Date Prep: 10.09.2020

MSD Sample Id: 674822-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5080	202	5290	104	5300	110	90-110	0	20	mg/kg	10.09.2020 18:46	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139408

MB Sample Id: 7713050-1-BLK

Matrix: Solid

LCS Sample Id: 7713050-1-BKS

Prep Method: SW8015P

Date Prep: 10.09.2020

LCSD Sample Id: 7713050-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	888	89	817	82	70-135	8	35	mg/kg	10.12.2020 10:23	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	917	92	70-135	15	35	mg/kg	10.12.2020 10:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	123		109		113		70-135	%	10.12.2020 10:23
o-Terphenyl	119		99		88		70-135	%	10.12.2020 10:23

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139408

Matrix: Solid

MB Sample Id: 7713050-1-BLK

Prep Method: SW8015P

Date Prep: 10.09.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.12.2020 13:43	

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

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

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

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



LT Environmental, Inc.
Hudson #1 Fed Com 008H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3139408

Parent Sample Id: 674817-002

Matrix: Soil

MS Sample Id: 674817-002 S

Prep Method: SW8015P

Date Prep: 10.09.2020

MSD Sample Id: 674817-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	849	85	827	83	70-135	3	35	mg/kg	10.12.2020 11:42	
Diesel Range Organics (DRO)	<50.2	1000	953	95	929	93	70-135	3	35	mg/kg	10.12.2020 11:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		89		70-135	%	10.12.2020 11:42
o-Terphenyl	72		73		70-135	%	10.12.2020 11:42

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139372

MB Sample Id: 7713005-1-BLK

Matrix: Solid

LCS Sample Id: 7713005-1-BKS

Prep Method: SW5035A

Date Prep: 10.09.2020

LCSD Sample Id: 7713005-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.0992	99	70-130	2	35	mg/kg	10.09.2020 22:54	
Toluene	<0.00200	0.100	0.0928	93	0.0929	93	70-130	0	35	mg/kg	10.09.2020 22:54	
Ethylbenzene	<0.00200	0.100	0.0942	94	0.0970	97	71-129	3	35	mg/kg	10.09.2020 22:54	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.198	99	70-135	3	35	mg/kg	10.09.2020 22:54	
o-Xylene	<0.00200	0.100	0.0981	98	0.0980	98	71-133	0	35	mg/kg	10.09.2020 22:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		102		70-130	%	10.09.2020 22:54
4-Bromofluorobenzene	114		107		110		70-130	%	10.09.2020 22:54

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139372

Parent Sample Id: 674817-001

Matrix: Soil

MS Sample Id: 674817-001 S

Prep Method: SW5035A

Date Prep: 10.09.2020

MSD Sample Id: 674817-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.105	105	0.111	111	70-130	6	35	mg/kg	10.09.2020 23:39	
Toluene	<0.00200	0.0998	0.0976	98	0.103	103	70-130	5	35	mg/kg	10.09.2020 23:39	
Ethylbenzene	<0.00200	0.0998	0.101	101	0.107	107	71-129	6	35	mg/kg	10.09.2020 23:39	
m,p-Xylenes	<0.00399	0.200	0.205	103	0.216	108	70-135	5	35	mg/kg	10.09.2020 23:39	
o-Xylene	<0.00200	0.0998	0.102	102	0.107	107	71-133	5	35	mg/kg	10.09.2020 23:39	

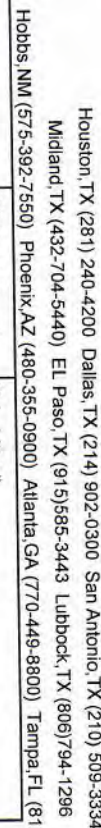
Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		99		70-130	%	10.09.2020 23:39
4-Bromofluorobenzene	109		110		70-130	%	10.09.2020 23:39

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

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

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

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



Chain of Custody

Work Order No: 674825

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

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

Work Order Notes

ANALYSIS REQUEST						WORK ORDER NUMBER
Project Name:	Hudson #1 Fed Com 008H	Turn Around				
Project Number:	012920105	Routine ☒				
P.O. Number:		Rush:				
Sampler's Name:	Spencer Lo	Due Date:				

SAMPLE RECEIPT		Temp Blank:		☒ Yes	☐ No	Well Ice:	☒ Yes	☐ No
Temperature (°C):	5-6/2.4	Thermometer ID						
Received Intact:	☒ Yes ☐ No	7-114-007						
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Correction Factor: 0.2						
Sample Custody Seals:	Yes ☐ No ☒ N/A	Total Containers: 6						

Number of Containers

EPA 8015)

(EPA 0=8021)

ide (EPA 300.0)

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

9 AM

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Num	TPH	BTEX	Chlor	Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
PH01	S	10/8/2020	1000	2'	1	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</

Total	200.7 / 6010	200.8 / 6020:
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8RCRA 13PPM 1exas 11 Al Sd As Ba Be B Cu Ca Cl Co Cu Cr Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
1631/245.1/7470/747

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

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cl Co Cu Fd Hlll Wlv Nl Oo Vg Vv

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencro 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 service. Xencro 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 service. Xencro 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 service. Xencro 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 service.

Xenico. A minimum charge of \$75.00 will be applied to each project and a charge of \$25.00 per hour shall apply to all other work.					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10-9-20 1348			

Revised Date 05/14/18 Rev. 2011

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.09.2020 01.40.00 PM

Work Order #: 674825

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 10.09.2020

Checklist reviewed by:



Jessica Kramer

Date: 10.12.2020

Certificate of Analysis Summary 678527



LT Environmental, Inc., Arvada, CO

Project Name: Hudson 1 Fed Com 008H

Project Id: TE012920105

Contact: Dan Moir

Project Location:

Date Received in Lab: Thu 11.19.2020 15:17

Report Date: 11.25.2020 07:23

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678527-001	678527-002	678527-003	678527-004	678527-005	678527-006
	<i>Field Id:</i>	PH02	PH02 A	PH02 B	PH02 C	PH02 D	PH02 E
	<i>Depth:</i>	6- ft	8- ft	11- ft	13- ft	15- ft	18- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.18.2020 12:10	11.18.2020 12:20	11.18.2020 12:30	11.18.2020 12:45	11.18.2020 13:00	11.18.2020 13:15
BTEX by EPA 8021B	<i>Extracted:</i>	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32
	<i>Analyzed:</i>	11.21.2020 07:52	11.21.2020 08:15	11.21.2020 08:37	11.21.2020 09:00	11.21.2020 09:22	11.21.2020 09:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Toluene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Ethylbenzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
m,p-Xylenes		<0.00402 0.00402	<0.00403 0.00403	<0.00399 0.00399	<0.00397 0.00397	<0.00397 0.00397	<0.00398 0.00398
o-Xylene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Total Xylenes		<0.002010 0.002010	<0.002020 0.002020	<0.002000 0.002000	<0.001980 0.001980	<0.001980 0.001980	<0.001990 0.001990
Total BTEX		<0.002010 0.002010	<0.002020 0.002020	<0.002000 0.002000	<0.001980 0.001980	<0.001980 0.001980	<0.001990 0.001990
Chloride by EPA 300	<i>Extracted:</i>	11.20.2020 15:30	11.20.2020 15:30	11.20.2020 15:30	11.20.2020 15:30	11.20.2020 15:30	11.23.2020 07:59
	<i>Analyzed:</i>	11.21.2020 01:19	11.21.2020 01:24	11.21.2020 01:30	11.21.2020 01:35	11.21.2020 01:40	11.23.2020 15:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4500 49.6	16200 200	2790 49.8	3700 49.8	3950 49.9	14900 200
TPH by SW8015 Mod	<i>Extracted:</i>	11.20.2020 10:12	11.20.2020 10:12	11.20.2020 10:12	11.20.2020 10:12	11.20.2020 10:12	11.20.2020 12:00
	<i>Analyzed:</i>	11.20.2020 18:48	11.20.2020 19:10	11.20.2020 19:31	11.20.2020 19:51	11.20.2020 20:11	11.20.2020 21:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.2 50.2	<50.1 50.1	<49.8 49.8
Diesel Range Organics (DRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.2 50.2	<50.1 50.1	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.2 50.2	<50.1 50.1	<49.8 49.8
Total GRO-DRO		<50.20 50.20	<49.90 49.90	<50.00 50.00	<50.20 50.20	<50.10 50.10	<49.80 49.80
Total TPH		<50.20 50.20	<49.90 49.90	<50.00 50.00	<50.20 50.20	<50.10 50.10	<49.80 49.80

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 678527



LT Environmental, Inc., Arvada, CO

Project Name: Hudson 1 Fed Com 008H

Project Id: TE012920105

Date Received in Lab: Thu 11.19.2020 15:17

Contact: Dan Moir

Report Date: 11.25.2020 07:23

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678527-007	678527-008	678527-009	678527-010	678527-011	678527-012
	<i>Field Id:</i>	PH03 B	PH03 C	PH03 D	PH03 E	PH04	PH04 A
	<i>Depth:</i>	11- ft	13- ft	15- ft	18- ft	2- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.18.2020 14:00	11.18.2020 14:15	11.18.2020 14:30	11.18.2020 14:45	11.18.2020 09:40	11.18.2020 09:55
BTEX by EPA 8021B	<i>Extracted:</i>	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32
	<i>Analyzed:</i>	11.21.2020 10:12	11.21.2020 10:29	11.21.2020 10:51	11.21.2020 16:26	11.21.2020 13:05	11.21.2020 13:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00404 0.00404	<0.00403 0.00403	<0.00399 0.00399	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.002000 0.002000	<0.002020 0.002020	<0.002020 0.002020	<0.002000 0.002000	<0.001990 0.001990	<0.002000 0.002000
Total BTEX		<0.002000 0.002000	<0.002020 0.002020	<0.002020 0.002020	<0.002000 0.002000	<0.001990 0.001990	<0.002000 0.002000
Chloride by EPA 300	<i>Extracted:</i>	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59
	<i>Analyzed:</i>	11.23.2020 16:01	11.23.2020 16:06	11.23.2020 16:11	11.23.2020 16:16	11.23.2020 16:32	11.23.2020 16:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1340 49.8	1140 49.8	254 10.1	818 10.1	544 10.1	548 10.0
TPH by SW8015 Mod	<i>Extracted:</i>	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00
	<i>Analyzed:</i>	11.20.2020 22:51	11.20.2020 23:11	11.20.2020 23:31	11.20.2020 23:52	11.21.2020 00:11	11.21.2020 00:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.1 50.1	<49.8 49.8	<49.9 49.9	<49.8 49.8	<49.8 49.8
Diesel Range Organics (DRO)		<50.1 50.1	<50.1 50.1	<49.8 49.8	<49.9 49.9	<49.8 49.8	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.1 50.1	<49.8 49.8	<49.9 49.9	<49.8 49.8	<49.8 49.8
Total GRO-DRO		<50.10 50.10	<50.10 50.10	<49.80 49.80	<49.90 49.90	<49.80 49.80	<49.80 49.80
Total TPH		<50.10 50.10	<50.10 50.10	<49.80 49.80	<49.90 49.90	<49.80 49.80	<49.80 49.80

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 678527



LT Environmental, Inc., Arvada, CO

Project Name: Hudson 1 Fed Com 008H

Project Id: TE012920105

Date Received in Lab: Thu 11.19.2020 15:17

Contact: Dan Moir

Report Date: 11.25.2020 07:23

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678527-013	678527-014	678527-015	678527-016	678527-017	678527-018
	<i>Field Id:</i>	PH04 B	PH04 C	PH04 D	PH05	PH05 A	PH05 B
	<i>Depth:</i>	6- ft	8- ft	10- ft	6- ft	8- ft	11- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.18.2020 10:10	11.18.2020 10:25	11.18.2020 10:40	11.18.2020 15:15	11.18.2020 15:50	11.18.2020 16:05
BTEX by EPA 8021B	<i>Extracted:</i>	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32	11.20.2020 17:32
	<i>Analyzed:</i>	11.21.2020 13:49	11.21.2020 14:12	11.21.2020 14:34	11.21.2020 14:57	11.21.2020 15:19	11.21.2020 15:41
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00403 0.00403	<0.00402 0.00402	<0.00401 0.00401	<0.00399 0.00399	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.002000 0.002000	<0.002020 0.002020	<0.002010 0.002010	<0.002000 0.002000	<0.002000 0.002000	<0.001990 0.001990
Total BTEX		<0.002000 0.002000	<0.002020 0.002020	<0.002010 0.002010	<0.002000 0.002000	<0.002000 0.002000	<0.001990 0.001990
Chloride by EPA 300	<i>Extracted:</i>	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59
	<i>Analyzed:</i>	11.23.2020 16:42	11.23.2020 16:47	11.23.2020 16:52	11.23.2020 16:58	11.23.2020 17:13	11.23.2020 17:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		511 9.98	551 9.96	498 49.9	131 9.96	19600 199	20600 200
TPH by SW8015 Mod	<i>Extracted:</i>	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00
	<i>Analyzed:</i>	11.21.2020 00:52	11.21.2020 01:12	11.21.2020 01:32	11.21.2020 02:13	11.21.2020 02:33	11.21.2020 02:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<49.8 49.8
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<49.8 49.8
Total GRO-DRO		<49.90 49.90	<49.80 49.80	<50.10 50.10	<49.80 49.80	<50.20 50.20	<49.80 49.80
Total TPH		<49.90 49.90	<49.80 49.80	<50.10 50.10	<49.80 49.80	<50.20 50.20	<49.80 49.80

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 678527



LT Environmental, Inc., Arvada, CO

Project Name: Hudson 1 Fed Com 008H

Project Id: TE012920105

Date Received in Lab: Thu 11.19.2020 15:17

Contact: Dan Moir

Report Date: 11.25.2020 07:23

Project Location:

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	678527-019	678527-020	678527-021			
	Field Id:	PH05 C	PH05 D	PH05 E			
	Depth:	13- ft	15- ft	18- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	11.18.2020 16:20	11.18.2020 16:35	11.18.2020 16:50			
BTEX by EPA 8021B	Extracted:	11.20.2020 17:32	11.21.2020 17:04	11.20.2020 10:58			
	Analyzed:	11.21.2020 16:04	11.22.2020 14:11	11.21.2020 03:37			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399	<0.00401 0.00401			
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
Total Xylenes		<0.002000 0.002000	<0.002000 0.002000	<0.002000 0.002000			
Total BTEX		<0.002000 0.002000	<0.002000 0.002000	<0.002000 0.002000			
Chloride by EPA 300	Extracted:	11.23.2020 07:59	11.23.2020 07:59	11.23.2020 07:59			
	Analyzed:	11.23.2020 17:34	11.23.2020 17:39	11.23.2020 17:44			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		25500 201	27400 202	29100 200			
TPH by SW8015 Mod	Extracted:	11.20.2020 12:00	11.20.2020 12:00	11.20.2020 12:00			
	Analyzed:	11.21.2020 03:13	11.21.2020 03:33	11.21.2020 03:53			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.8 49.8	<50.3 50.3			
Diesel Range Organics (DRO)		<50.3 50.3	<49.8 49.8	<50.3 50.3			
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.8 49.8	<50.3 50.3			
Total GRO-DRO		<50.30 50.30	<49.80 49.80	<50.30 50.30			
Total TPH		<50.30 50.30	<49.80 49.80	<50.30 50.30			

BRL - Below Reporting Limit

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



Analytical Report 678527

for

LT Environmental, Inc.

Project Manager: Dan Moir

Hudson 1 Fed Com 008H

TE012920105

11.25.2020

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **678527**

Hudson 1 Fed Com 008H

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678527. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678527 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 678527****LT Environmental, Inc., Arvada, CO**

Hudson 1 Fed Com 008H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH02	S	11.18.2020 12:10	6 ft	678527-001
PH02 A	S	11.18.2020 12:20	8 ft	678527-002
PH02 B	S	11.18.2020 12:30	11 ft	678527-003
PH02 C	S	11.18.2020 12:45	13 ft	678527-004
PH02 D	S	11.18.2020 13:00	15 ft	678527-005
PH02 E	S	11.18.2020 13:15	18 ft	678527-006
PH03 B	S	11.18.2020 14:00	11 ft	678527-007
PH03 C	S	11.18.2020 14:15	13 ft	678527-008
PH03 D	S	11.18.2020 14:30	15 ft	678527-009
PH03 E	S	11.18.2020 14:45	18 ft	678527-010
PH04	S	11.18.2020 09:40	2 ft	678527-011
PH04 A	S	11.18.2020 09:55	4 ft	678527-012
PH04 B	S	11.18.2020 10:10	6 ft	678527-013
PH04 C	S	11.18.2020 10:25	8 ft	678527-014
PH04 D	S	11.18.2020 10:40	10 ft	678527-015
PH05	S	11.18.2020 15:15	6 ft	678527-016
PH05 A	S	11.18.2020 15:50	8 ft	678527-017
PH05 B	S	11.18.2020 16:05	11 ft	678527-018
PH05 C	S	11.18.2020 16:20	13 ft	678527-019
PH05 D	S	11.18.2020 16:35	15 ft	678527-020
PH05 E	S	11.18.2020 16:50	18 ft	678527-021



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Hudson 1 Fed Com 008H

Project ID: TE012920105
Work Order Number(s): 678527

Report Date: 11.25.2020
Date Received: 11.19.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH02**
Lab Sample Id: 678527-001

Matrix: Soil
Date Collected: 11.18.2020 12:10

Date Received: 11.19.2020 15:17
Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 15:30

% Moisture:
Basis: Wet Weight

Seq Number: 3142940

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4500	49.6	mg/kg	11.21.2020 01:19		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 10:12

% Moisture:
Basis: Wet Weight

Seq Number: 3142991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.20.2020 18:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.20.2020 18:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.20.2020 18:48	U	1
Total GRO-DRO	PHC628	<50.20	50.20	mg/kg	11.20.2020 18:48	U	1
Total TPH	PHC635	<50.20	50.20	mg/kg	11.20.2020 18:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	11.20.2020 18:48	
o-Terphenyl	84-15-1	106	%	70-135	11.20.2020 18:48	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH02**
Lab Sample Id: 678527-001

Matrix: Soil
Date Collected: 11.18.2020 12:10

Date Received: 11.19.2020 15:17
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.21.2020 07:52	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.21.2020 07:52	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.21.2020 07:52	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.21.2020 07:52	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.21.2020 07:52	U	1
Total Xylenes	1330-20-7	<0.002010	0.002010	mg/kg	11.21.2020 07:52	U	1
Total BTEX		<0.002010	0.002010	mg/kg	11.21.2020 07:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.21.2020 07:52	
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.21.2020 07:52	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH02 A**
Lab Sample Id: 678527-002

Matrix: Soil
Date Collected: 11.18.2020 12:20

Date Received: 11.19.2020 15:17
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 15:30

% Moisture:
Basis: Wet Weight

Seq Number: 3142940

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16200	200	mg/kg	11.21.2020 01:24		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 10:12

% Moisture:
Basis: Wet Weight

Seq Number: 3142991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.20.2020 19:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.20.2020 19:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.20.2020 19:10	U	1
Total GRO-DRO	PHC628	<49.90	49.90	mg/kg	11.20.2020 19:10	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.20.2020 19:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	11.20.2020 19:10	
o-Terphenyl	84-15-1	113	%	70-135	11.20.2020 19:10	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH02 A**
Lab Sample Id: 678527-002

Matrix: Soil
Date Collected: 11.18.2020 12:20

Date Received: 11.19.2020 15:17
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.21.2020 08:15	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.21.2020 08:15	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.21.2020 08:15	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.21.2020 08:15	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.21.2020 08:15	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.21.2020 08:15	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.21.2020 08:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.21.2020 08:15		
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.21.2020 08:15		



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH02 B**
Lab Sample Id: 678527-003

Matrix: Soil
Date Collected: 11.18.2020 12:30

Date Received: 11.19.2020 15:17
Sample Depth: 11 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 15:30

% Moisture:
Basis: Wet Weight

Seq Number: 3142940

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2790	49.8	mg/kg	11.21.2020 01:30		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 10:12

% Moisture:
Basis: Wet Weight

Seq Number: 3142991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.20.2020 19:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.20.2020 19:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.20.2020 19:31	U	1
Total GRO-DRO	PHC628	<50.00	50.00	mg/kg	11.20.2020 19:31	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.20.2020 19:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.20.2020 19:31	
o-Terphenyl	84-15-1	107	%	70-135	11.20.2020 19:31	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH02 B**
Lab Sample Id: 678527-003

Matrix: Soil
Date Collected: 11.18.2020 12:30

Date Received: 11.19.2020 15:17
Sample Depth: 11 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 08:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 08:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 08:37	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 08:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 08:37	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 08:37	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 08:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.21.2020 08:37	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.21.2020 08:37	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH02 C**
Lab Sample Id: 678527-004

Matrix: Soil
Date Collected: 11.18.2020 12:45

Date Received: 11.19.2020 15:17
Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 15:30

% Moisture:
Basis: Wet Weight

Seq Number: 3142940

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3700	49.8	mg/kg	11.21.2020 01:35		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 10:12

% Moisture:
Basis: Wet Weight

Seq Number: 3142991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.20.2020 19:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.20.2020 19:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.20.2020 19:51	U	1
Total GRO-DRO	PHC628	<50.20	50.20	mg/kg	11.20.2020 19:51	U	1
Total TPH	PHC635	<50.20	50.20	mg/kg	11.20.2020 19:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.20.2020 19:51	
o-Terphenyl	84-15-1	114	%	70-135	11.20.2020 19:51	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH02 C**
Lab Sample Id: 678527-004

Matrix: Soil
Date Collected: 11.18.2020 12:45

Date Received: 11.19.2020 15:17
Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.21.2020 09:00	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.21.2020 09:00	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.21.2020 09:00	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.21.2020 09:00	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.21.2020 09:00	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	11.21.2020 09:00	U	1
Total BTEX		<0.001980	0.001980	mg/kg	11.21.2020 09:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.21.2020 09:00	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.21.2020 09:00	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

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Sample Id: **PH02 D**
Lab Sample Id: 678527-005

Matrix: Soil
Date Collected: 11.18.2020 13:00

Date Received: 11.19.2020 15:17
Sample Depth: 15 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 15:30

% Moisture:
Basis: Wet Weight

Seq Number: 3142940

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3950	49.9	mg/kg	11.21.2020 01:40		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 10:12

% Moisture:
Basis: Wet Weight

Seq Number: 3142991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.20.2020 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.20.2020 20:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.20.2020 20:11	U	1
Total GRO-DRO	PHC628	<50.10	50.10	mg/kg	11.20.2020 20:11	U	1
Total TPH	PHC635	<50.10	50.10	mg/kg	11.20.2020 20:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.20.2020 20:11	
o-Terphenyl	84-15-1	105	%	70-135	11.20.2020 20:11	



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH02 D**
Lab Sample Id: 678527-005

Matrix: Soil
Date Collected: 11.18.2020 13:00

Date Received: 11.19.2020 15:17
Sample Depth: 15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.21.2020 09:22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.21.2020 09:22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.21.2020 09:22	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.21.2020 09:22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.21.2020 09:22	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	11.21.2020 09:22	U	1
Total BTEX		<0.001980	0.001980	mg/kg	11.21.2020 09:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.21.2020 09:22		
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.21.2020 09:22		



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Sample Id: **PH02 E** Matrix: Soil Date Received: 11.19.2020 15:17
 Lab Sample Id: 678527-006 Date Collected: 11.18.2020 13:15 Sample Depth: 18 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.23.2020 07:59 % Moisture:
 Seq Number: 3143166 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14900	200	mg/kg	11.23.2020 15:45		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.20.2020 12:00 % Moisture:
 Seq Number: 3142934 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.20.2020 21:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.20.2020 21:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.20.2020 21:51	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.20.2020 21:51	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.20.2020 21:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.20.2020 21:51	
o-Terphenyl	84-15-1	110	%	70-135	11.20.2020 21:51	



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Sample Id: **PH02 E**
Lab Sample Id: 678527-006

Matrix: Soil
Date Collected: 11.18.2020 13:15

Date Received: 11.19.2020 15:17
Sample Depth: 18 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.21.2020 09:45	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.21.2020 09:45	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.21.2020 09:45	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.21.2020 09:45	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.21.2020 09:45	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.21.2020 09:45	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.21.2020 09:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.21.2020 09:45	
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.21.2020 09:45	



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Sample Id: **PH03 B**
Lab Sample Id: 678527-007

Matrix: Soil
Date Collected: 11.18.2020 14:00

Date Received: 11.19.2020 15:17
Sample Depth: 11 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1340	49.8	mg/kg	11.23.2020 16:01		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.20.2020 22:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.20.2020 22:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.20.2020 22:51	U	1
Total GRO-DRO	PHC628	<50.10	50.10	mg/kg	11.20.2020 22:51	U	1
Total TPH	PHC635	<50.10	50.10	mg/kg	11.20.2020 22:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.20.2020 22:51	
o-Terphenyl	84-15-1	96	%	70-135	11.20.2020 22:51	



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LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH03 B**
Lab Sample Id: 678527-007

Matrix: Soil
Date Collected: 11.18.2020 14:00

Date Received: 11.19.2020 15:17
Sample Depth: 11 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 10:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 10:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 10:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 10:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 10:12	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 10:12	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 10:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	70-130	11.21.2020 10:12		
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.21.2020 10:12		



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH03 C**
Lab Sample Id: 678527-008

Matrix: Soil
Date Collected: 11.18.2020 14:15

Date Received: 11.19.2020 15:17
Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1140	49.8	mg/kg	11.23.2020 16:06		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.20.2020 23:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.20.2020 23:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.20.2020 23:11	U	1
Total GRO-DRO	PHC628	<50.10	50.10	mg/kg	11.20.2020 23:11	U	1
Total TPH	PHC635	<50.10	50.10	mg/kg	11.20.2020 23:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	11.20.2020 23:11	
o-Terphenyl	84-15-1	114	%	70-135	11.20.2020 23:11	



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH03 C**
Lab Sample Id: 678527-008

Matrix: Soil
Date Collected: 11.18.2020 14:15

Date Received: 11.19.2020 15:17
Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.21.2020 10:29	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.21.2020 10:29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.21.2020 10:29	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	11.21.2020 10:29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.21.2020 10:29	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.21.2020 10:29	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.21.2020 10:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.21.2020 10:29		
4-Bromofluorobenzene	460-00-4	90	%	70-130	11.21.2020 10:29		



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH03 D**
Lab Sample Id: 678527-009

Matrix: Soil
Date Collected: 11.18.2020 14:30

Date Received: 11.19.2020 15:17
Sample Depth: 15 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	254	10.1	mg/kg	11.23.2020 16:11		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.20.2020 23:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.20.2020 23:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.20.2020 23:31	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.20.2020 23:31	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.20.2020 23:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.20.2020 23:31	
o-Terphenyl	84-15-1	96	%	70-135	11.20.2020 23:31	



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Sample Id: **PH03 D**
Lab Sample Id: 678527-009

Matrix: Soil
Date Collected: 11.18.2020 14:30

Date Received: 11.19.2020 15:17
Sample Depth: 15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.21.2020 10:51	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.21.2020 10:51	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.21.2020 10:51	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.21.2020 10:51	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.21.2020 10:51	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.21.2020 10:51	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.21.2020 10:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.21.2020 10:51		
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.21.2020 10:51		



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Sample Id: **PH03 E**
Lab Sample Id: 678527-010

Matrix: Soil
Date Collected: 11.18.2020 14:45

Date Received: 11.19.2020 15:17
Sample Depth: 18 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	818	10.1	mg/kg	11.23.2020 16:16		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.20.2020 23:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.20.2020 23:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.20.2020 23:52	U	1
Total GRO-DRO	PHC628	<49.90	49.90	mg/kg	11.20.2020 23:52	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.20.2020 23:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.20.2020 23:52	
o-Terphenyl	84-15-1	116	%	70-135	11.20.2020 23:52	



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH03 E**
Lab Sample Id: 678527-010

Matrix: Soil
Date Collected: 11.18.2020 14:45

Date Received: 11.19.2020 15:17
Sample Depth: 18 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 16:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 16:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 16:26	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 16:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 16:26	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 16:26	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 16:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	11.21.2020 16:26		
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.21.2020 16:26		



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Sample Id: **PH04**
Lab Sample Id: 678527-011

Matrix: Soil
Date Collected: 11.18.2020 09:40

Date Received: 11.19.2020 15:17
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	544	10.1	mg/kg	11.23.2020 16:32		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.21.2020 00:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.21.2020 00:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.21.2020 00:11	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.21.2020 00:11	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.21.2020 00:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	11.21.2020 00:11	
o-Terphenyl	84-15-1	114	%	70-135	11.21.2020 00:11	



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LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH04**
Lab Sample Id: 678527-011

Matrix: Soil
Date Collected: 11.18.2020 09:40

Date Received: 11.19.2020 15:17
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.21.2020 13:05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.21.2020 13:05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.21.2020 13:05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.21.2020 13:05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.21.2020 13:05	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.21.2020 13:05	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.21.2020 13:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.21.2020 13:05		
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.21.2020 13:05		



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH04 A**
Lab Sample Id: 678527-012

Matrix: Soil
Date Collected: 11.18.2020 09:55

Date Received: 11.19.2020 15:17
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	548	10.0	mg/kg	11.23.2020 16:37		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.21.2020 00:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.21.2020 00:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.21.2020 00:32	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.21.2020 00:32	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.21.2020 00:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.21.2020 00:32	
o-Terphenyl	84-15-1	104	%	70-135	11.21.2020 00:32	



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH04 A**
Lab Sample Id: 678527-012

Matrix: Soil
Date Collected: 11.18.2020 09:55

Date Received: 11.19.2020 15:17
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 13:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 13:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 13:27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 13:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 13:27	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 13:27	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 13:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.21.2020 13:27		
4-Bromofluorobenzene	460-00-4	92	%	70-130	11.21.2020 13:27		



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH04 B**
Lab Sample Id: 678527-013

Matrix: Soil
Date Collected: 11.18.2020 10:10

Date Received: 11.19.2020 15:17
Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	511	9.98	mg/kg	11.23.2020 16:42		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.21.2020 00:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.21.2020 00:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.21.2020 00:52	U	1
Total GRO-DRO	PHC628	<49.90	49.90	mg/kg	11.21.2020 00:52	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.21.2020 00:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.21.2020 00:52	
o-Terphenyl	84-15-1	106	%	70-135	11.21.2020 00:52	



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH04 B**
Lab Sample Id: 678527-013

Matrix: Soil
Date Collected: 11.18.2020 10:10

Date Received: 11.19.2020 15:17
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 13:49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 13:49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 13:49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 13:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 13:49	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 13:49	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 13:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	11.21.2020 13:49		
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.21.2020 13:49		



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH04 C**
Lab Sample Id: 678527-014

Matrix: Soil
Date Collected: 11.18.2020 10:25

Date Received: 11.19.2020 15:17
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	551	9.96	mg/kg	11.23.2020 16:47		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.21.2020 01:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.21.2020 01:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.21.2020 01:12	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.21.2020 01:12	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.21.2020 01:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	11.21.2020 01:12	
o-Terphenyl	84-15-1	116	%	70-135	11.21.2020 01:12	



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH04 C**
Lab Sample Id: 678527-014

Matrix: Soil
Date Collected: 11.18.2020 10:25

Date Received: 11.19.2020 15:17
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.21.2020 14:12	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.21.2020 14:12	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.21.2020 14:12	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.21.2020 14:12	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.21.2020 14:12	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.21.2020 14:12	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.21.2020 14:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.21.2020 14:12		
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.21.2020 14:12		



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH04 D**
Lab Sample Id: 678527-015

Matrix: Soil
Date Collected: 11.18.2020 10:40

Date Received: 11.19.2020 15:17
Sample Depth: 10 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	498	49.9	mg/kg	11.23.2020 16:52		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.21.2020 01:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.21.2020 01:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.21.2020 01:32	U	1
Total GRO-DRO	PHC628	<50.10	50.10	mg/kg	11.21.2020 01:32	U	1
Total TPH	PHC635	<50.10	50.10	mg/kg	11.21.2020 01:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	11.21.2020 01:32	
o-Terphenyl	84-15-1	98	%	70-135	11.21.2020 01:32	



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH04 D**
Lab Sample Id: 678527-015

Matrix: Soil
Date Collected: 11.18.2020 10:40

Date Received: 11.19.2020 15:17
Sample Depth: 10 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.21.2020 14:34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.21.2020 14:34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.21.2020 14:34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.21.2020 14:34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.21.2020 14:34	U	1
Total Xylenes	1330-20-7	<0.002010	0.002010	mg/kg	11.21.2020 14:34	U	1
Total BTEX		<0.002010	0.002010	mg/kg	11.21.2020 14:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.21.2020 14:34		
4-Bromofluorobenzene	460-00-4	93	%	70-130	11.21.2020 14:34		



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH05** Matrix: Soil Date Received: 11.19.2020 15:17
 Lab Sample Id: 678527-016 Date Collected: 11.18.2020 15:15 Sample Depth: 6 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.23.2020 07:59 % Moisture:
 Seq Number: 3143166 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	131	9.96	mg/kg	11.23.2020 16:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.20.2020 12:00 % Moisture:
 Seq Number: 3142934 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.21.2020 02:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.21.2020 02:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.21.2020 02:13	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.21.2020 02:13	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.21.2020 02:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.21.2020 02:13	
o-Terphenyl	84-15-1	112	%	70-135	11.21.2020 02:13	



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LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH05**
Lab Sample Id: 678527-016

Matrix: Soil
Date Collected: 11.18.2020 15:15

Date Received: 11.19.2020 15:17
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 14:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 14:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 14:57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.21.2020 14:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 14:57	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 14:57	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 14:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.21.2020 14:57		
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.21.2020 14:57		



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH05 A**
Lab Sample Id: 678527-017

Matrix: Soil
Date Collected: 11.18.2020 15:50

Date Received: 11.19.2020 15:17
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19600	199	mg/kg	11.23.2020 17:13		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.21.2020 02:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.21.2020 02:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.21.2020 02:33	U	1
Total GRO-DRO	PHC628	<50.20	50.20	mg/kg	11.21.2020 02:33	U	1
Total TPH	PHC635	<50.20	50.20	mg/kg	11.21.2020 02:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	11.21.2020 02:33	
o-Terphenyl	84-15-1	94	%	70-135	11.21.2020 02:33	



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LT Environmental, Inc., Arvada, CO

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Sample Id: **PH05 A**
Lab Sample Id: 678527-017

Matrix: Soil
Date Collected: 11.18.2020 15:50

Date Received: 11.19.2020 15:17
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 15:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 15:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 15:19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 15:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 15:19	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 15:19	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 15:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	11.21.2020 15:19	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.21.2020 15:19	



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Sample Id: **PH05 B**
Lab Sample Id: 678527-018

Matrix: Soil
Date Collected: 11.18.2020 16:05

Date Received: 11.19.2020 15:17
Sample Depth: 11 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20600	200	mg/kg	11.23.2020 17:18		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.21.2020 02:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.21.2020 02:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.21.2020 02:53	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.21.2020 02:53	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.21.2020 02:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	11.21.2020 02:53	
o-Terphenyl	84-15-1	122	%	70-135	11.21.2020 02:53	



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LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH05 B**
Lab Sample Id: 678527-018

Matrix: Soil
Date Collected: 11.18.2020 16:05

Date Received: 11.19.2020 15:17
Sample Depth: 11 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.21.2020 15:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.21.2020 15:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.21.2020 15:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.21.2020 15:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.21.2020 15:41	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.21.2020 15:41	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.21.2020 15:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.21.2020 15:41		
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.21.2020 15:41		



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Sample Id: **PH05 C**
Lab Sample Id: 678527-019

Matrix: Soil
Date Collected: 11.18.2020 16:20

Date Received: 11.19.2020 15:17
Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:59

% Moisture:
Basis: Wet Weight

Seq Number: 3143166

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25500	201	mg/kg	11.23.2020 17:34		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3142934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.21.2020 03:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.21.2020 03:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.21.2020 03:13	U	1
Total GRO-DRO	PHC628	<50.30	50.30	mg/kg	11.21.2020 03:13	U	1
Total TPH	PHC635	<50.30	50.30	mg/kg	11.21.2020 03:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.21.2020 03:13	
o-Terphenyl	84-15-1	114	%	70-135	11.21.2020 03:13	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH05 C**
 Lab Sample Id: 678527-019

Matrix: Soil
 Date Collected: 11.18.2020 16:20

Date Received: 11.19.2020 15:17
 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 17:32

% Moisture:
 Basis: Wet Weight

Seq Number: 3142996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 16:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 16:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 16:04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 16:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 16:04	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 16:04	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 16:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.21.2020 16:04		
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.21.2020 16:04		



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

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Sample Id: **PH05 D** Matrix: Soil Date Received: 11.19.2020 15:17
 Lab Sample Id: 678527-020 Date Collected: 11.18.2020 16:35 Sample Depth: 15 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.23.2020 07:59 % Moisture:
 Seq Number: 3143166 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27400	202	mg/kg	11.23.2020 17:39		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.20.2020 12:00 % Moisture:
 Seq Number: 3142934 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.21.2020 03:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.21.2020 03:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.21.2020 03:33	U	1
Total GRO-DRO	PHC628	<49.80	49.80	mg/kg	11.21.2020 03:33	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.21.2020 03:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.21.2020 03:33	
o-Terphenyl	84-15-1	118	%	70-135	11.21.2020 03:33	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH05 D**
Lab Sample Id: 678527-020

Matrix: Soil
Date Collected: 11.18.2020 16:35

Date Received: 11.19.2020 15:17
Sample Depth: 15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.21.2020 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3142998

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.22.2020 14:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.22.2020 14:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.22.2020 14:11	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.22.2020 14:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.22.2020 14:11	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.22.2020 14:11	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.22.2020 14:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.22.2020 14:11		
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.22.2020 14:11		



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

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Sample Id: **PH05 E** Matrix: Soil Date Received: 11.19.2020 15:17
 Lab Sample Id: 678527-021 Date Collected: 11.18.2020 16:50 Sample Depth: 18 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.23.2020 07:59 % Moisture:
 Seq Number: 3143166 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29100	200	mg/kg	11.23.2020 17:44		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 11.20.2020 12:00 % Moisture:
 Seq Number: 3142934 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.21.2020 03:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.21.2020 03:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.21.2020 03:53	U	1
Total GRO-DRO	PHC628	<50.30	50.30	mg/kg	11.21.2020 03:53	U	1
Total TPH	PHC635	<50.30	50.30	mg/kg	11.21.2020 03:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	11.21.2020 03:53	
o-Terphenyl	84-15-1	108	%	70-135	11.21.2020 03:53	



Certificate of Analytical Results 678527

LT Environmental, Inc., Arvada, CO

Hudson 1 Fed Com 008H

Sample Id: **PH05 E**
Lab Sample Id: 678527-021

Matrix: Soil
Date Collected: 11.18.2020 16:50

Date Received: 11.19.2020 15:17
Sample Depth: 18 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 10:58

% Moisture:
Basis: Wet Weight

Seq Number: 3142935

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 03:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 03:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 03:37	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.21.2020 03:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 03:37	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 03:37	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 03:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.21.2020 03:37		
4-Bromofluorobenzene	460-00-4	89	%	70-130	11.21.2020 03:37		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.
Hudson 1 Fed Com 008H

Analytical Method: Chloride by EPA 300

Seq Number: 3142940

MB Sample Id: 7715682-1-BLK

Matrix: Solid

LCS Sample Id: 7715682-1-BKS

Prep Method: E300P

Date Prep: 11.20.2020

LCSD Sample Id: 7715682-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	254	102	90-110	0	20	mg/kg	11.20.2020 23:10	

Analytical Method: Chloride by EPA 300

Seq Number: 3143166

MB Sample Id: 7715707-1-BLK

Matrix: Solid

LCS Sample Id: 7715707-1-BKS

Prep Method: E300P

Date Prep: 11.23.2020

LCSD Sample Id: 7715707-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	245	98	241	96	90-110	2	20	mg/kg	11.23.2020 15:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3142940

Parent Sample Id: 678524-003

Matrix: Soil

MS Sample Id: 678524-003 S

Prep Method: E300P

Date Prep: 11.20.2020

MSD Sample Id: 678524-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	225	199	428	102	427	101	90-110	0	20	mg/kg	11.20.2020 23:25	

Analytical Method: Chloride by EPA 300

Seq Number: 3142940

Parent Sample Id: 678525-010

Matrix: Soil

MS Sample Id: 678525-010 S

Prep Method: E300P

Date Prep: 11.20.2020

MSD Sample Id: 678525-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	44.6	200	250	103	248	102	90-110	1	20	mg/kg	11.21.2020 00:38	

Analytical Method: Chloride by EPA 300

Seq Number: 3143166

Parent Sample Id: 678527-006

Matrix: Soil

MS Sample Id: 678527-006 S

Prep Method: E300P

Date Prep: 11.23.2020

MSD Sample Id: 678527-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14900	199	15100	101	15100	99	90-110	0	20	mg/kg	11.23.2020 15:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3143166

Parent Sample Id: 678527-016

Matrix: Soil

MS Sample Id: 678527-016 S

Prep Method: E300P

Date Prep: 11.23.2020

MSD Sample Id: 678527-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	131	200	331	100	327	99	90-110	1	20	mg/kg	11.23.2020 17:03	

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

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

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

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



LT Environmental, Inc.
Hudson 1 Fed Com 008H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142991

MB Sample Id: 7715674-1-BLK

Matrix: Solid

LCS Sample Id: 7715674-1-BKS

Prep Method: SW8015P

Date Prep: 11.20.2020

LCSD Sample Id: 7715674-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	957	96	70-135	14	35	mg/kg	11.20.2020 12:06	
Diesel Range Organics (DRO)	<50.0	1000	1170	117	1100	110	70-135	6	35	mg/kg	11.20.2020 12:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		116		116		70-135	%	11.20.2020 12:06
o-Terphenyl	109		123		109		70-135	%	11.20.2020 12:06

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142934

MB Sample Id: 7715677-1-BLK

Matrix: Solid

LCS Sample Id: 7715677-1-BKS

Prep Method: SW8015P

Date Prep: 11.20.2020

LCSD Sample Id: 7715677-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1210	121	1170	117	70-135	3	35	mg/kg	11.20.2020 21:11	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1050	105	70-135	6	35	mg/kg	11.20.2020 21:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		112		116		70-135	%	11.20.2020 21:11
o-Terphenyl	118		102		111		70-135	%	11.20.2020 21:11

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142991

Matrix: Solid

MB Sample Id: 7715674-1-BLK

Prep Method: SW8015P

Date Prep: 11.20.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.20.2020 11:46	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142934

Matrix: Solid

MB Sample Id: 7715677-1-BLK

Prep Method: SW8015P

Date Prep: 11.20.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.20.2020 20:51	

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

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

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

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



LT Environmental, Inc.
Hudson 1 Fed Com 008H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142991

Parent Sample Id: 678524-003

Matrix: Soil

MS Sample Id: 678524-003 S

Prep Method: SW8015P

Date Prep: 11.20.2020

MSD Sample Id: 678524-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1110	111	1200	120	70-135	8	35	mg/kg	11.20.2020 13:06	
Diesel Range Organics (DRO)	<49.8	996	1060	106	1110	111	70-135	5	35	mg/kg	11.20.2020 13:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		105		70-135	%	11.20.2020 13:06
o-Terphenyl	106		108		70-135	%	11.20.2020 13:06

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142934

Parent Sample Id: 678527-006

Matrix: Soil

MS Sample Id: 678527-006 S

Prep Method: SW8015P

Date Prep: 11.20.2020

MSD Sample Id: 678527-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1150	115	1110	111	70-135	4	35	mg/kg	11.20.2020 22:11	
Diesel Range Organics (DRO)	<50.0	1000	1100	110	995	100	70-135	10	35	mg/kg	11.20.2020 22:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		107		70-135	%	11.20.2020 22:11
o-Terphenyl	98		112		70-135	%	11.20.2020 22:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142935

MB Sample Id: 7715671-1-BLK

Matrix: Solid

LCS Sample Id: 7715671-1-BKS

Prep Method: SW5035A

Date Prep: 11.20.2020

LCSD Sample Id: 7715671-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.113	113	0.103	103	70-130	9	35	mg/kg	11.20.2020 17:33	
Toluene	<0.00200	0.100	0.106	106	0.0970	97	70-130	9	35	mg/kg	11.20.2020 17:33	
Ethylbenzene	<0.00200	0.100	0.0969	97	0.0897	90	71-129	8	35	mg/kg	11.20.2020 17:33	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.181	91	70-135	7	35	mg/kg	11.20.2020 17:33	
o-Xylene	<0.00200	0.100	0.0965	97	0.0909	91	71-133	6	35	mg/kg	11.20.2020 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		100		100		70-130	%	11.20.2020 17:33
4-Bromofluorobenzene	88		86		85		70-130	%	11.20.2020 17:33

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

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

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

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



LT Environmental, Inc.
Hudson 1 Fed Com 008H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142996

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.20.2020

MB Sample Id: 7715672-1-BLK

LCS Sample Id: 7715672-1-BKS

LCSD Sample Id: 7715672-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.109	109	70-130	0	35	mg/kg	11.21.2020 05:50	
Toluene	<0.00200	0.100	0.103	103	0.102	102	70-130	1	35	mg/kg	11.21.2020 05:50	
Ethylbenzene	<0.00200	0.100	0.0939	94	0.0926	93	71-129	1	35	mg/kg	11.21.2020 05:50	
m,p-Xylenes	<0.00400	0.200	0.190	95	0.186	93	70-135	2	35	mg/kg	11.21.2020 05:50	
o-Xylene	<0.00200	0.100	0.0944	94	0.0933	93	71-133	1	35	mg/kg	11.21.2020 05:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		99		70-130	%	11.21.2020 05:50
4-Bromofluorobenzene	85		89		86		70-130	%	11.21.2020 05:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142998

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.21.2020

MB Sample Id: 7715709-1-BLK

LCS Sample Id: 7715709-1-BKS

LCSD Sample Id: 7715709-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0974	97	0.0977	98	70-130	0	35	mg/kg	11.22.2020 07:03	
Toluene	<0.00200	0.100	0.0908	91	0.0909	91	70-130	0	35	mg/kg	11.22.2020 07:03	
Ethylbenzene	<0.00200	0.100	0.0943	94	0.0937	94	71-129	1	35	mg/kg	11.22.2020 07:03	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.192	96	70-135	1	35	mg/kg	11.22.2020 07:03	
o-Xylene	<0.00200	0.100	0.0960	96	0.0963	96	71-133	0	35	mg/kg	11.22.2020 07:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		97		100		70-130	%	11.22.2020 07:03
4-Bromofluorobenzene	115		108		109		70-130	%	11.22.2020 07:03

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142935

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.20.2020

Parent Sample Id: 678524-003

MS Sample Id: 678524-003 S

MSD Sample Id: 678524-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.111	111	0.109	110	70-130	2	35	mg/kg	11.20.2020 18:18	
Toluene	<0.00200	0.0998	0.106	106	0.105	106	70-130	1	35	mg/kg	11.20.2020 18:18	
Ethylbenzene	<0.00200	0.0998	0.0975	98	0.0959	96	71-129	2	35	mg/kg	11.20.2020 18:18	
m,p-Xylenes	<0.00399	0.200	0.198	99	0.194	97	70-135	2	35	mg/kg	11.20.2020 18:18	
o-Xylene	<0.00200	0.0998	0.0971	97	0.0949	95	71-133	2	35	mg/kg	11.20.2020 18:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		70-130	%	11.20.2020 18:18
4-Bromofluorobenzene	82		86		70-130	%	11.20.2020 18:18

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

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

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

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



LT Environmental, Inc.
Hudson 1 Fed Com 008H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142996

Parent Sample Id: 678527-001

Matrix: Soil

MS Sample Id: 678527-001 S

Prep Method: SW5035A

Date Prep: 11.20.2020

MSD Sample Id: 678527-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0894	89	0.0885	88	70-130	1	35	mg/kg	11.21.2020 06:35	
Toluene	<0.00200	0.100	0.0835	84	0.0848	84	70-130	2	35	mg/kg	11.21.2020 06:35	
Ethylbenzene	<0.00200	0.100	0.0749	75	0.0773	77	71-129	3	35	mg/kg	11.21.2020 06:35	
m,p-Xylenes	<0.00401	0.200	0.152	76	0.157	78	70-135	3	35	mg/kg	11.21.2020 06:35	
o-Xylene	<0.00200	0.100	0.0757	76	0.0778	77	71-133	3	35	mg/kg	11.21.2020 06:35	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		70-130	%	11.21.2020 06:35
4-Bromofluorobenzene	85		85		70-130	%	11.21.2020 06:35

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142998

Parent Sample Id: 678647-004

Matrix: Soil

MS Sample Id: 678647-004 S

Prep Method: SW5035A

Date Prep: 11.21.2020

MSD Sample Id: 678647-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0841	84	0.0828	83	70-130	2	35	mg/kg	11.22.2020 07:48	
Toluene	<0.00200	0.100	0.0786	79	0.0768	77	70-130	2	35	mg/kg	11.22.2020 07:48	
Ethylbenzene	<0.00200	0.100	0.0813	81	0.0766	77	71-129	6	35	mg/kg	11.22.2020 07:48	
m,p-Xylenes	<0.00401	0.200	0.163	82	0.159	79	70-135	2	35	mg/kg	11.22.2020 07:48	
o-Xylene	<0.00200	0.100	0.0823	82	0.0809	81	71-133	2	35	mg/kg	11.22.2020 07:48	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		97		70-130	%	11.22.2020 07:48
4-Bromofluorobenzene	106		104		70-130	%	11.22.2020 07:48

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

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

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

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



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Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-520-2000)

Chain of Custody
Work Order No: 6018524
www.xenco.com Page 1 of 3

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

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

Project Name:	Hudson 1 Fed Com 008H	Turn Around	
Project Number:	TE012920105	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
Temperature (°C):	21.2/22.2	Thermometer ID	TUN-001	
Received In tact:	☒ Yes ☐ No	Correction Factor:	-0.2	
Cooler Custody Seals:	☒ Yes ☐ No	Total Containers:	01	
Sample Custody Seals:	☒ Yes ☐ No			

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (EPA 8015)	BTEX (EPA 8015)	Chloride (EPA 8015)	Sample Comments												
PH02					S	11/18/2020	1210	6'	1	X	X	X													
PH02A					S	11/18/2020	1220	8'	1	X	X	X													
PH02B					S	11/18/2020	1230	11'	1	X	X	X													
PH02C					S	11/18/2020	1245	13'	1	X	X	X													
PH02D					S	11/18/2020	1300	15'	1	X	X	X													
PH02E					S	11/18/2020	1315	18'	1	X	X	X													
PH03B					S	11/18/2020	1400	11'	1	X	X	X													
PH03C					S	11/18/2020	1415	13'	1	X	X	X													
PH03D					S	11/18/2020	1430	15'	1	X	X	X													
PH03E					S	11/18/2020	1445	18'	1	X	X	X													

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11-19-20 1517			
3					
5					



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 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: 678527

Page 2 of 3

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

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

ANALYSIS REQUEST

Work Order Notes

Project Name:	Hudson 1 Fed Com 008H	Turn Around	
Project Number:	TE012920105	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):		Thermometer ID				
Received Inact:	Yes	No	See Page 1			
Cooler Custody Seals:	Yes	No	Correction Factor:			
Sample Custody Seals:	Yes	No	Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers															
PH04	S	11/18/2020	940	2'	1	X	X	X	X											
PH04A	S	11/18/2020	955	4'	1	X	X	X	X											
PH04B	S	11/18/2020	1010	6'	1	X	X	X	X											
PH04C	S	11/18/2020	1025	8'	1	X	X	X	X											
PH04D	S	11/18/2020	1040	10'	1	X	X	X	X											
PH05	S	11/18/2020	1515	6'	1	X	X	X	X											
PH05A	S	11/18/2020	1550	8'	1	X	X	X	X											
PH05B	S	11/18/2020	1605	11'	1	X	X	X	X											
PH05C	S	11/18/2020	1620	13'	1	X	X	X	X											
PH05D	S	11/18/2020	1635	15'	1	X	X	X	X											

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		11/19/20 1517			

Revised Date 05/11/18 Rev 2018.1



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Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 233-3927
Hobbs, NM (575-392-7550)

Work Order No: 678527

Page 3 of 3

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Chain of Custody

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

Work Order Comments			
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐			
State of Project:			
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐			
Deliverables: EDD ☐ ADaPT ☐ Other:			

[illegible]

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		11.19.20 15:12			
2 					
3					
4					
5					
6					

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11.19.2020 03.17.00 PM

Work Order #: 678527

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 11.19.2020

Checklist reviewed by:



Jessica Kramer

Date: 11.20.2020

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 78174

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 78174
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure approved on App ID # 85129	3/1/2022