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

April 1, 2020

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

RE: Closure Request
WPX Energy Permian, LLC
Ross Draw Unit #042
Incident ID NVV2002439696
Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request detailing soil sampling and excavation activities at the Ross Draw Unit #042 (Site) in Unit K, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the soil sampling and excavation activities was to address impacts to soil following an event that resulted in the release of produced water and crude oil onto well pad and adjacent pasture. Based on the excavation activities and results of the soil sampling events, WPX requests no further action (NFA).

BACKGROUND

On January 6, 2020, a wellhead gauge failed, resulting in approximately 28 barrels (bbls) of crude oil and 25 bbls of produced water to be released to the well pad and migrate southwest toward a drainage feature in the adjacent pasture. The release impacted areas previously delineated and reported under Incident ID NAB1605654667 (2RP-3564). Vacuum trucks were dispatched and recovered 15 bbls of crude oil and 15 bbls produced water from the impacted area. The spill volume was calculated by averaging the saturated soil depth and estimating the percentage of liquids based on soil type. Any free liquids were added to the total volume. The average saturation depth of the soil was observed to be 1.0 inch within the release extent. The soil capping the pad surface is compacted caliche, which is estimated to have an available space (i.e. porosity) of 15 percent (%) total volume. The soil capping the pasture is poorly graded sand, which is estimated to have an available space (i.e. porosity) of 40 percent (%) total volume. Based on these assumptions, the following equation was used to calculate total volume:

Based on these assumptions, the following equation was used to calculate total volume:

"saturated soil volume (cubic feet) x (4.21 cubic feet per bbl of liquid) x estimated soil porosity (%)"

WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) which was received by the NMOCD and was assigned Incident ID NVV2002439696 (Attachment 1).

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on known aquifer properties and the elevation difference between the Site and an identified water well. The nearest permitted water well with depth to water data is United States Geological Survey (USGS) water well 320125103514701, located approximately 3,372 ft southeast of the Site. Water well 320125103514701 has a reported depth to water of 117 feet bgs and is approximately 7 feet higher in elevation than the Site. The closest significant watercourse to the Site is an unnamed tributary located approximately 2,208 southwest of the Site. The Site is greater than 300 feet from any occupied residence, school, hospital, institution, church, or wetland and greater than 1,000 feet to a freshwater well or spring. The Site is not within a 100-year floodplain or overlying a subsurface mine or unstable area.

On February 10, 2020, LTE contracted Southwest Geophysical Consulting, LLC (SGC) to determine the location, description, and boundaries of any karst-related features within a 200-meter boundary surrounding the Site. The survey concluded that no surface karst features were located within the survey area and that the Site is located in a medium-potential karst area. The Cave and Karst Resource Inventory Report is included as Attachment 2.

Based on these criteria, the following NMOCD Table 1 closure criteria apply:

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

Additionally, LTE applied a reclamation standard for chloride of 600 mg/kg for the top four feet of all impacted areas to be reclaimed immediately in the pasture.

SITE ASSESSMENT

On January 6, 2020, LTE conducted site investigative activities immediately following the incident. The release extent was mapped using a handheld Global Positioning System (GPS) unit and is shown on Figure 2. In an attempt to expedite remediation efforts, it was determined that removal

of impacted soils would be confirmed through confirmation sampling during excavation activities.

EXCAVATION ACTIVITIES

Between March 3, 2020, and March 18, 2020, LTE was on site to oversee excavation activities within the release area. Excavation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using a PID and chloride using Hach® chloride QuanTab® test strips. Following completion of excavation activities, five-point composite confirmation soil samples were collected from the floor (samples labeled as "FS") and sidewalls (samples labeled as "SW") of the excavation area. Each soil sample represented at most 200 square feet. 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 sample was shipped at or below 4 degrees Celsius (°C) under strict chain-of custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (USEPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0.

Approximately 388 cubic yards of impacted soil were removed from the excavation. Approximately 360 cubic yards were transported to the R360 Red Bluff Disposal Facility in Orla, Texas and 28 cubic yards were transported to the PetroWaste Disposal Facility in Orla, Texas under WPX approved manifests. The excavation area measured a total of approximately 8,294 square feet in area and ranged in depth from 0 feet bgs to 4.5 feet bgs. The excavation area and soil sample locations are depicted on Figure 2. Complete laboratory analytical reports are included in Attachment 4. Photographic documentation was conducted throughout the remediation process. The Photographic Logs are included in Attachment 3.

ANALYTICAL RESULTS

Laboratory analytical results of all final excavation confirmation soil samples indicate compliance with the Closure Criteria. Laboratory analytical results are summarized in Table 1.

CONCLUSIONS

Remediation of impacted soils was successfully achieved as demonstrated through soil confirmation sampling. The excavations were backfilled with locally sourced materials and recontoured to match pre-existing conditions. Additionally, the area in pasture will be seeded with a BLM-approved seed mix during favorable germination conditions. WPX is requesting an NFA determination and closure of Incident ID NVV2002439696.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Joseph S. Hernandez
Project Geologist

Ashley L. Ager, M.S., P.G.
Senior Geologist

cc: Jim Raley, WPX
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD
Jim Amos, BLM

Attachments:

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Form C-141
Attachment 2	Cave and Karst Resource Inventory Report
Attachment 3	Laboratory Analytical Reports
Attachment 4	Photographic Log

FIGURES

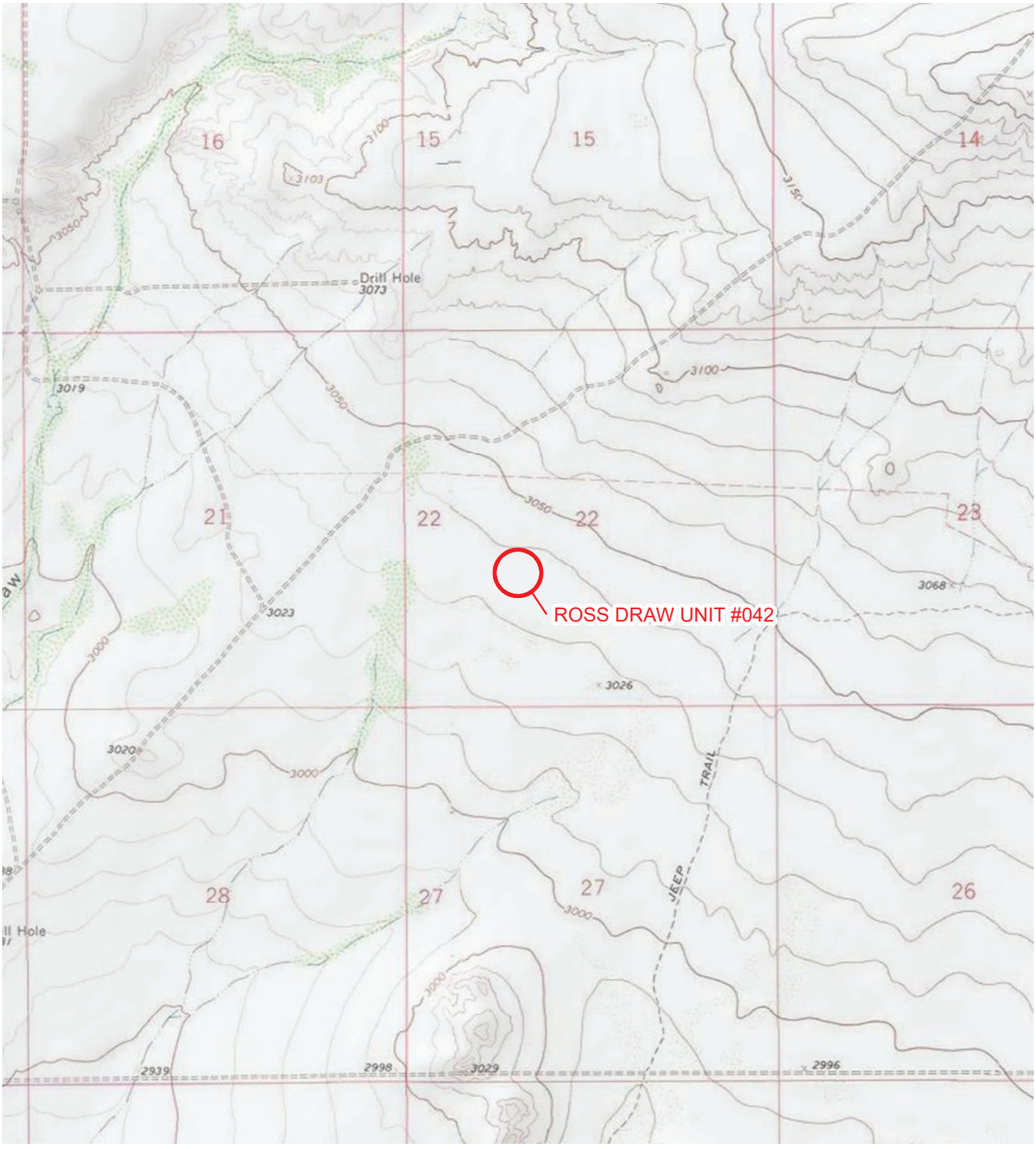


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

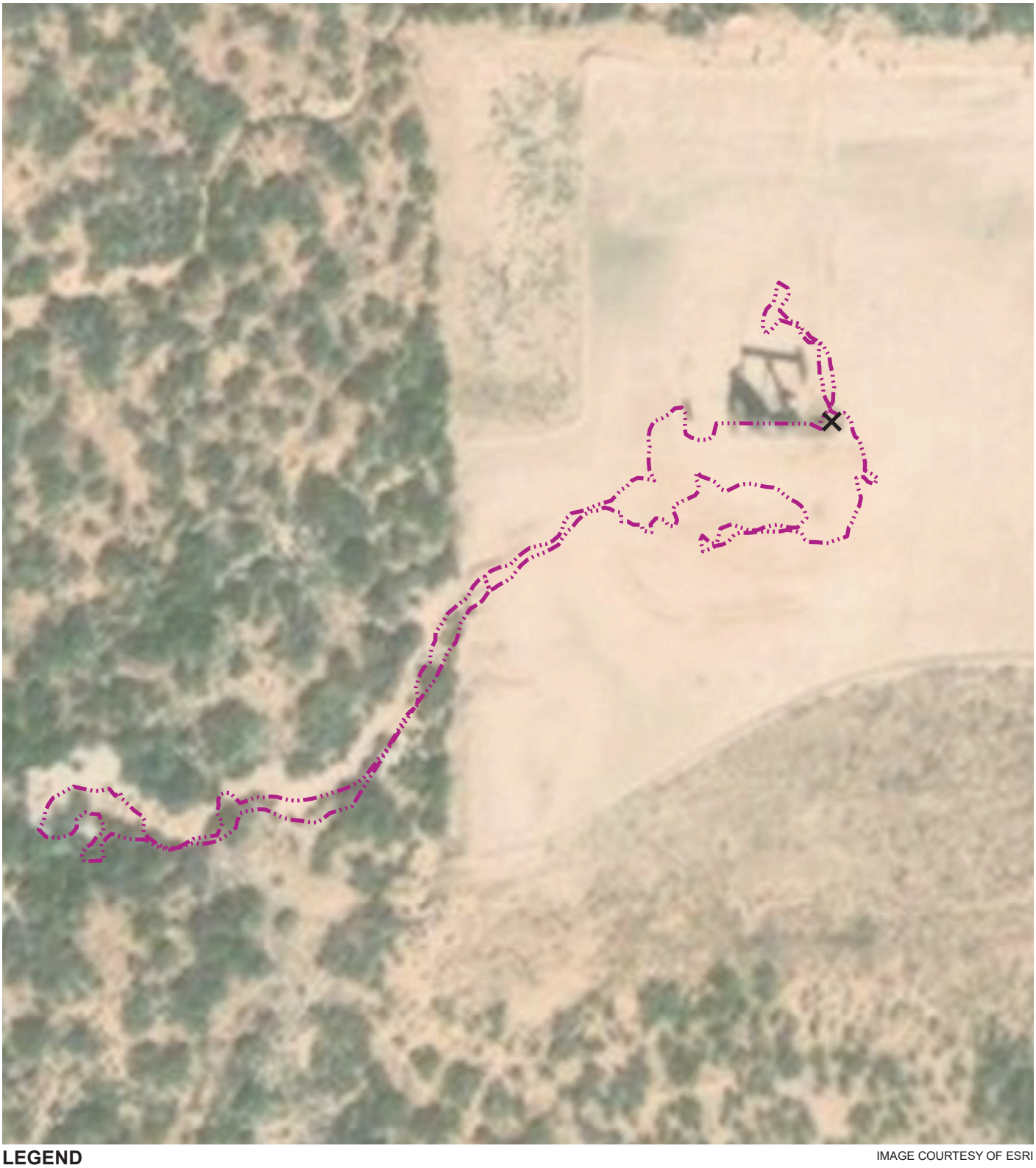
Feet

N

NEW MEXICO

FIGURE 1
SITE LOCATION MAP
ROSS DRAW UNIT #042
UNIT K SEC 22 T26S R30E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

P:\WPX\GIS\MXD\034820001_RDU 42\034820001_FIG01_SL_2020_3564.mxd



LEGEND

RELEASE LOCATION

RELEASE EXTENT

IMAGE COURTESY OF ESRI

0 60 120

Feet

N

FIGURE 2
SITE MAP
ROSS DRAW UNIT #042
UNIT K SEC 22 T26S R30E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

P:\WPX\GIS\MXD\034820001_RDU 42\034820001_FIG02_ SS_2020_3564.mxd

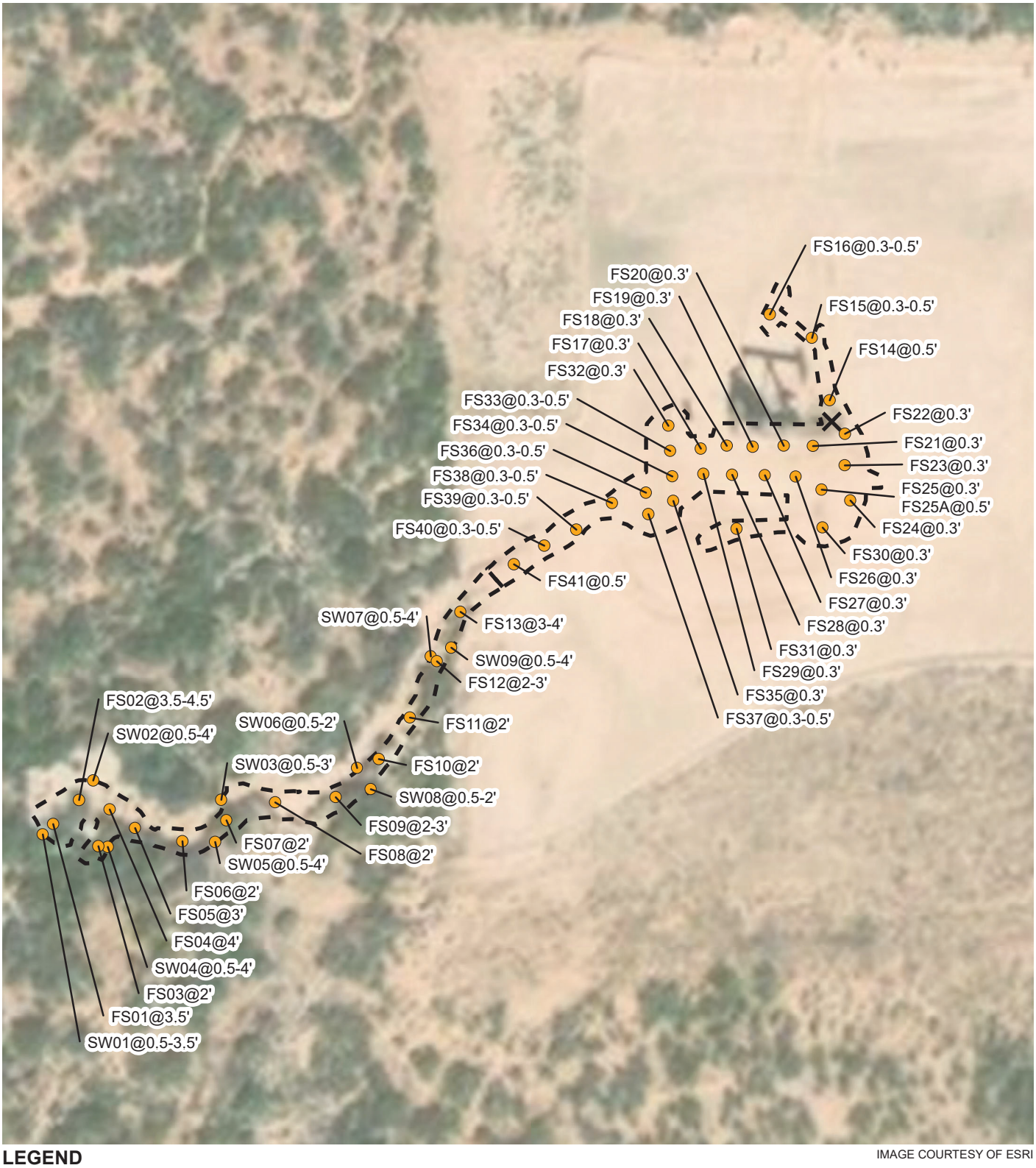


IMAGE COURTESY OF ESRI

LEGEND

- RELEASE LOCATION
- EXCAVATION SOIL SAMPLE
- EXCAVATION EXTENT

0 60 120
Feet

N

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
ROSS DRAW UNIT #042
UNIT K SEC 22 T26S R30E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

P:\WPX\GIS\MXD\034820001_RDU 42\034820001_FIG02_EXCAVATION_2020.mxd

TABLE

TABLE 1
SOIL ANALYTICAL RESULTS

ROSS DRAW UNIT #042
REMEDIATION PERMIT NUMBER NOT ASSIGNED
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
SW01	0.5 - 3.5	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	<9.98
SW02	0.5 - 4	03/05/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	347
SW03	0.5 - 3	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	151
SW04	0.5 - 4	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	10.1
SW05	0.5 - 4	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	<9.96
SW06	0.5 - 2	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	<9.88
SW07	0.5 - 4	03/05/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	160
SW08	0.5 - 2	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	213
SW09	0.5 - 4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	117
FS01	3.5	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	<9.88
FS02	3.5 - 4.5	03/05/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	31.2
FS03	2	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	75.0	<49.9	75.0	75.0	82.1
FS04	4	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	585
FS05	3	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	117
FS06	2	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	519
FS07	2	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	353
FS08	2	03/05/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	288
FS09	2 - 3	03/05/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	190
FS10	2	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	283
FS11	2	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	270
FS12	2 - 3	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	220
FS13	3 - 4	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	285
FS14	0.5	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	337	<49.9	337	337	785

TABLE 1
SOIL ANALYTICAL RESULTS

ROSS DRAW UNIT #042
REMEDIATION PERMIT NUMBER NOT ASSIGNED
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
FS15	0.3 - 0.5	03/06/2020	<0.00926	<0.00926	0.0468	0.233	0.279	52.9	605	<50.1	658	658	132
FS16	0.3 - 0.5	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	70.4	<50.1	70.4	70.4	182
FS17	0.3	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	3,190
FS18	0.3	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	3,220
FS19	0.3	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	63.8	<50.3	63.8	63.8	3,150
FS20	0.3	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	54.4	<50.1	54.4	54.4	8,850
FS21	0.3	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.3	428	155	428	583	5,680
FS22	0.3	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	651	67.3	651	718	8,640
FS23	0.3	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	65.9	<49.8	65.9	65.9	365
FS24	0.3	03/06/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	1,380
FS25	0.3	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	1,290	176	**1,290**	1,470	6,560
FS25A	0.5	03/18/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	4,620
FS26	0.3	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	200	<49.9	200	200	5,260
FS27	0.3	03/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	2,370
FS28	0.3	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	66.2	<50.2	66.2	66.2	4,510
FS29	0.3	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	6,380
FS30	0.3	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	5,620
FS31	0.3	03/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	5,540
FS32	0.3	03/06/2020	<0.00231	<0.00231	0.00903	0.0556	0.0646	<50.0	292	<50.0	292	292	1,440
FS33	0.3 - 0.5	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	503
FS34	0.3 - 0.5	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	6,210
FS35	0.3	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	3,600
FS36	0.3 - 0.5	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	91.1	<50.3	91.1	91.1	4,260

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TABLE 1
SOIL ANALYTICAL RESULTS

ROSS DRAW UNIT #042
REMEDIATION PERMIT NUMBER NOT ASSIGNED
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
FS37	0.3 - 0.5	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	3,150
FS38	0.3 - 0.5	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	332	51.5	332	384	4,200
FS39	0.3 - 0.5	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	3,480
FS40	0.3 - 0.5	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	6,260
FS41	0.5	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	3,780

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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

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ATTACHMENT 1: FORM C-141

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	NVV2002439696
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: james.raley@wpxenergy.com	Incident # *(assigned by OCD)* NVV2002439696
Contact mailing address: 5315 Buena Vista Dr., Carlsbad, NM 88220	

Location of Release Source

Latitude 32.026123308 Longitude -103.8718851
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: ROSS DRAW UNIT #042	Site Type: Production Facility
Date Release Discovered: 1/6/2020	API# *(if applicable): 30-015-42945*

Unit Letter	Section	Township	Range	County
K	22	26S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private

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)28	Volume Recovered (bbls)15
☒ Produced Water	Volume Released (bbls) 25	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Failure of gauge on wellhead allowed for release of approx. 53 bbls of fluids both on and off location. Volume estimated by following formula.

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%) + \text{recovered fluids (bbl)}$$

State of New Mexico
Oil Conservation Division

Incident ID	NVV2002439696
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Estimated volume exceeded 25bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Phone call to Mike Bratcher on 1/6/2019 at 12:06 PM	

Initial Response

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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Jim Raley Title: Environmental Specialist

Signature: _____ Date: 1/8/2019

email: james.raley@wpxenergy.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NVV2002439696
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NVV2002439696
District RP	
Facility ID	
Application ID	

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

Printed Name: Jim Raley Title: Environmental Specialist

Signature: Jim Raley Date: 4/3/2020

email: james.raley@wpxenergy.com Telephone: 575-689-7597

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NVV2002439696
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

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

Printed Name: Jim Raley Title: Environmental Specialist

Signature: Jim Raley Date: 4/3/2020

email: james.raley@wpxenergy.com Telephone: 575-689-7597

OCD Only

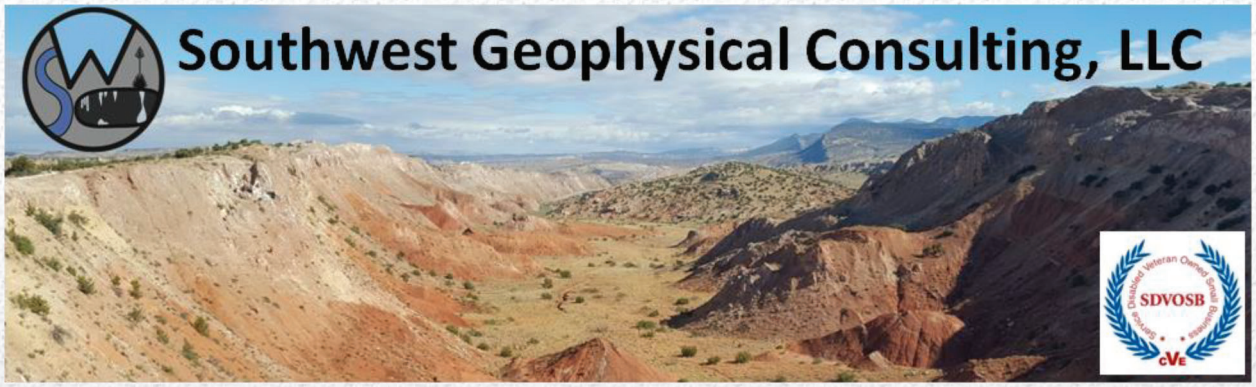
Received by: _____ Date: _____

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: _____

ATTACHMENT 2: CAVE AND KARST REOURCE INVENTORY REPORT



Cave and Karst Resource Inventory Report
Ross Draw Unit 42 Central Tank Battery
Eddy County, New Mexico

Prepared for:

LT Environmental, Inc.

848 East 2nd Avenue

Durango, CO 81301

☐ **Positive for Karst Features – HKOZ remediation process required**

☑ **Negative for Karst Features – MKOZ remediation process may be approved by the Oil Conservation Division**

February 10, 2020

LTE-006-20200130

Published by:

Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
(505) 585-2550
www.swgeophys.com

Prepared by:

David D. Decker, Ph.D.
Principal, Chief Executive Officer
dave@swgeophys.com

Prepared for:

LT Environmental, Inc.
820 Megan Avenue, Unit B
Rifle, CO 81650

Point of Contact:

Chris McKisson
(970) 285-9985
cmckisson@ltenv.com

MMXX

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1.0 INTRODUCTION

This report was commissioned by LT Environmental, Inc. (hereinafter referred to as "the client") on January 30, 2020 for the purpose of determining what, if any, karst-related surface features are present near the Ross Draw Unit 42 Central Tank Battery site (hereinafter termed “RDU 42”, **Figure 1**) and to provide guidance on the level of remediation required. This study does not include subsurface features, which would require a geophysical survey. The study area that this report covers is in a **MEDIUM** karst occurrence zone and entirely located within Bureau of Land Management – Carlsbad Field Office managed lands (**Figure 2**).

As indicated in section ***1.3 Affected Environment***, the bedrock and overlying soil at the survey site are susceptible to sinkhole development and karst features may be hidden beneath the existing soil stratum. Risk associated with sinkhole formation can be minimized during development with proper foundation design and construction, and the control of site hydrology. The Owner/Developer must recognize, however, that a risk of sinkhole-induced damage to infrastructure does exist. The Owner/Developer must evaluate the risks and attendant costs of performing a geophysical survey prior to development, versus no geophysical survey, and must be willing to accept these risks if it is decided that a surface karst survey is sufficient. Southwest Geophysical Consulting, LLC can provide a geophysical survey. If the decision is made to conduct a geophysical survey, a cost estimate and timeline will be provided upon request.

1.1 Goals of this Study

To provide the client with the location, description, photos, and boundaries of any surface karst-related features within a 200-meter boundary surrounding the pad on the RDU47 project site as provided by the client via e-mail on January 30, 2020.

1.2 Summary of Findings

No surface karst features were located within the pedestrian survey area. However, unknown hidden features may still exist beneath the surface. Caution should be exercised during remediation.

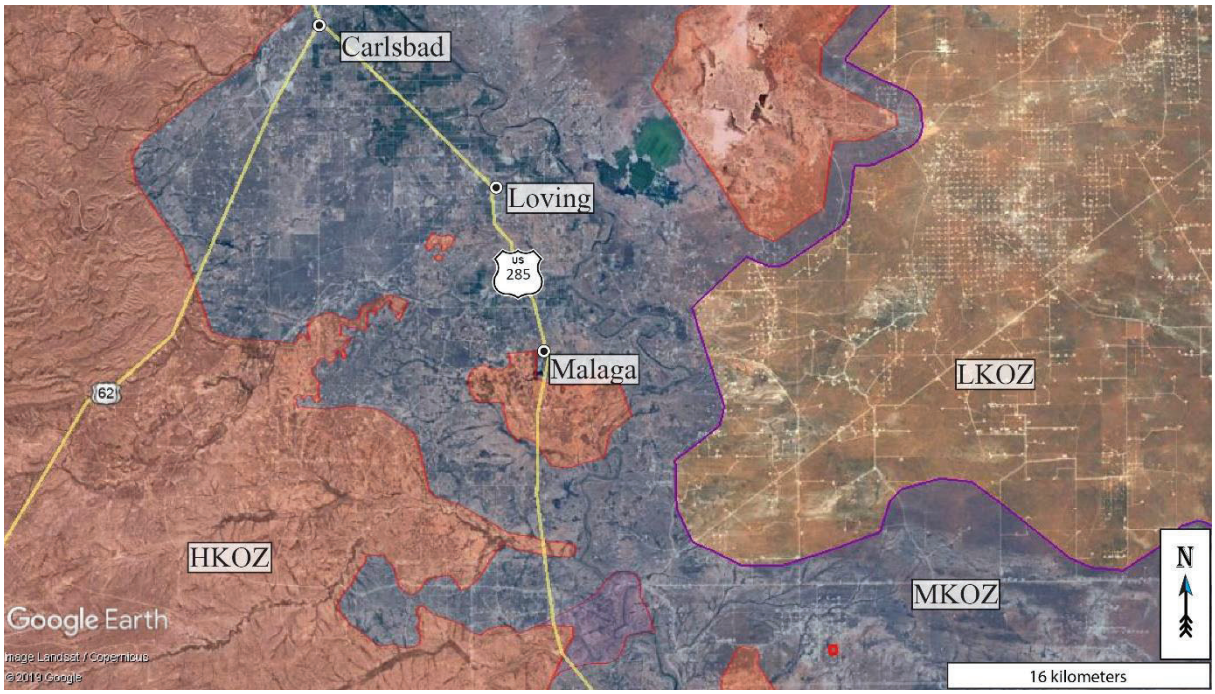

Figure 1: Karst occurrence overview. Red transparent area is a high karst occurrence zone; blue transparent area is a medium karst occurrence zone; no color indicates a low karst occurrence zone. Study area is the red outlined area in the lower-right portion of the image. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

1.3 Affected Environment

The RDU 42 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers. This project occurs within a **MEDIUM** karst occurrence zone[1] (MKOZ, **Figure 1**). A medium karst occurrence zone is defined as an area in known soluble rock types that may have a shallow insoluble overburden. These areas may contain isolated karst features such as caves and sinkholes. Groundwater recharge may not be wholly dependent on karst features, but the karst features still provide the most rapid aquifer recharge in response to surface runoff[2].

An on-site inspection revealed that there are no surface karst features within the pedestrian survey area. However, unknown buried features may exist; therefore, this action is subject to mitigation measures designed to adequately protect known and potential cave/karst resources.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The RDU 42 project site is located in Eddy County, New Mexico, 51 kilometers (31.7 miles) southeast of Carlsbad, New Mexico; 18 kilometers (11 miles) east of US-285, and 2 kilometers (1.2 miles) north of the New Mexico-Texas Border (**Figure 1** and **Figure 2**). The site is located within section 22 of NM T26S R30E. This area is within the Chihuahuan Desert Thornscrub defined by the Southwestern Regional ReGAP Vegetation map[5] and the vegetation consists mostly of areas of grass, sparse creosote, and sparse yucca with very good visibility in most locations. See section ***2.3 Local Geology*** for the geology of the area. The pad and surrounding survey boundary are entirely within a medium karst occurrence zone (**Figure 1**) and are located entirely within BLM-CFO managed lands (**Figure 2**).

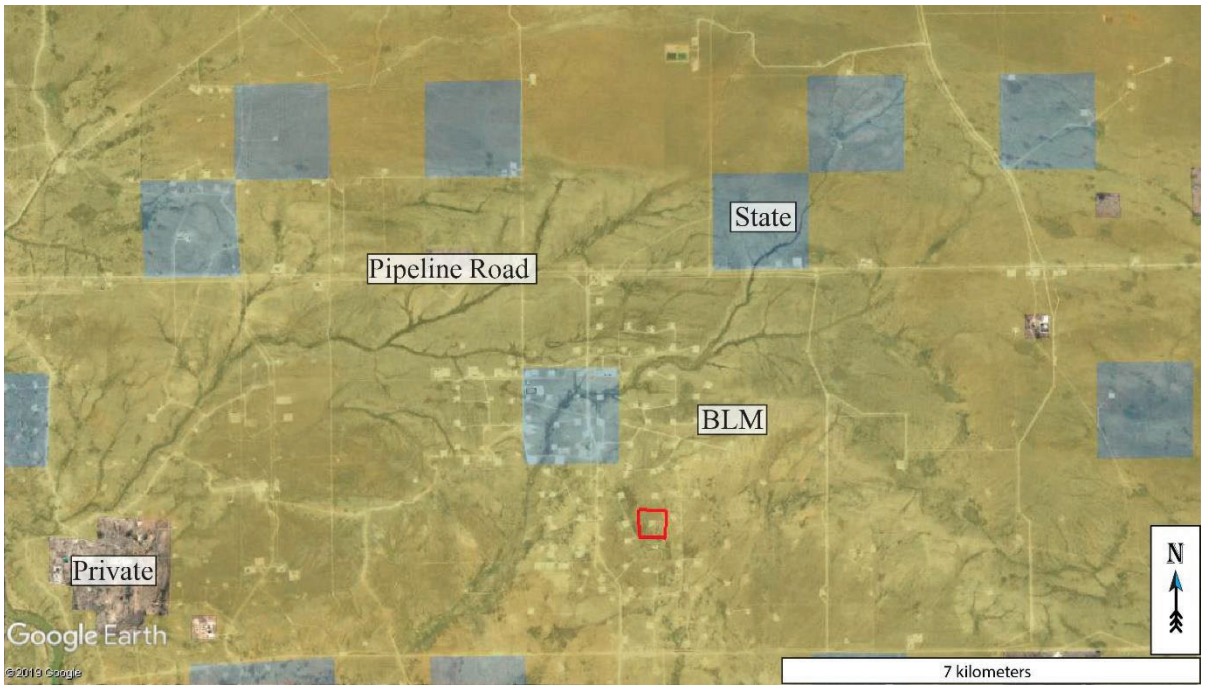

Figure 2: Land ownership overview. Yellow transparent area: BLM-CFO managed land. Blue transparent area: New Mexico State Land Office managed land. No color: Private land. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.2 Description of Survey

For this survey 12 lines were walked in a raster pattern at 50-meter (165 feet) intervals in the designated area, providing 90 to 100% coverage for features greater than 50 centimeters (20 inches) in diameter (**Table 1**).

The survey was completed by Garrett Jorgensen on January 31, 2020. The total distance walked was 5.8 kilometers (3.6 miles) and the total area covered was 0.2 square kilometers (51.9 acres).

Table 1: Survey Track Data Files.

File Name	Surveyor	Date	Length (km/miles)	Area (km^2/Ac)
RDXSRV_D1S1.kmz	Jorgensen	01/31/2020	5.81/3.61	0.21/51.9

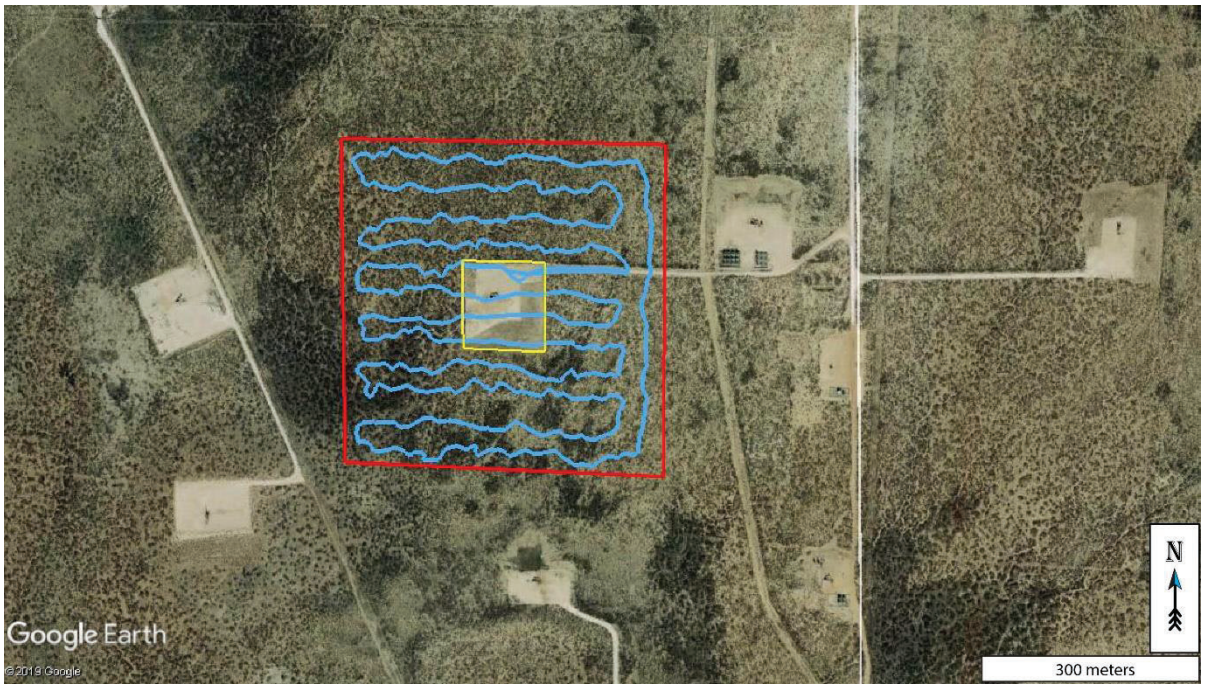

Figure 3: Survey overview. Light blue wavy lines are the actual survey lines walked. Yellow polygon is the pad site. Red polygon is the 200-meter buffer study area. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.3 Local Geology

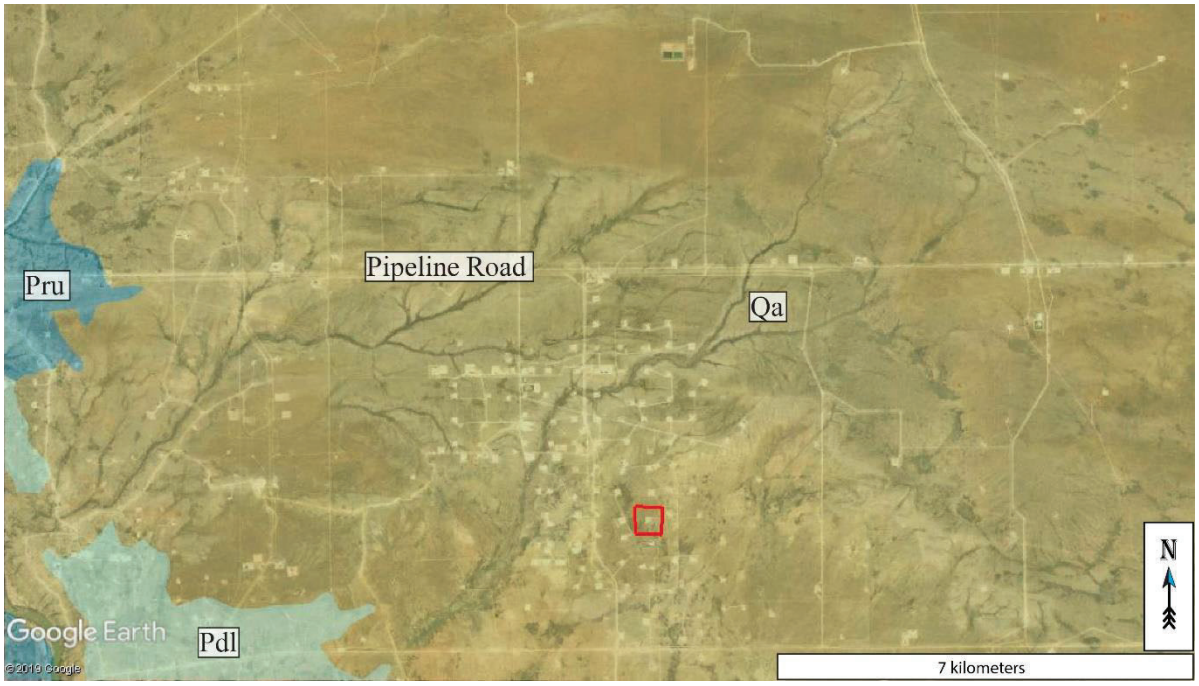

Figure 4: Geology overview. Red polygon highlights the survey area. Pru: Permian Rustler Formation. Pdl: Permian Dewey Lake Formation. Qa: Quaternary units, locally includes both Qg: Quaternary Gatuna Formation and Qs: Quaternary windblown sand. Geologic Map of New Mexico, scale: 1:500,000 (2003), and Google Earth. Image date: February 21, 2019. Datum: WGS-84.

The area surveyed for the RDU 42 project is located at an elevation of 930 meters (3,050 feet), plus or minus 3 meters (9 feet), within the Quaternary Gatuna Formation (Qg – not shown. Within Qa on map) and Quaternary windblown sand (Qs – not shown. Within Qa on map). The Gatuna Formation is a conglomerate composed of calcite cemented limestone and sandstone cobble derived from the Guadalupe Mountains. The large proportion of calcite that makes up the matrix for this formation allows limited karst formation to occur. The entirety of the survey area is underlain by the Permian Dewey Lake Formation (Pdl), which outcrops in the southernmost section of the survey area, and Permian Rustler (Pru) Formation (which does not outcrop within the survey area). The Dewey Lake Formation is composed of calcite cemented, hematite stained quartz sand grains and is not known for forming karst. The Rustler Formation is composed of alternating layers of gypsum and dolomite, both of which are easily dissolved to form karst features[3, 4]. Two easily accessible geologic maps that cover the survey area are the Geologic Map of New Mexico (2003) at 1:500,000 scale[2], and the Geologic Atlas of Texas - Hobbs Sheet (1976) at 1:250,000 scale.

2.4 Description of Karst Features

No surface karst features were located within the 200-meter boundary of the pedestrian survey area for the RDU 42 project.

3.0 RECOMMENDATIONS

No surface karst features were located during this survey. Based on the above findings, allowing use of medium karst occurrence zone spill remediation procedures may be considered by the Oil Conservation Division within the 200-meter survey area. Confirmation to use a lower remediation level should be received from the Oil Conservation Division before proceeding.

Vigilance during remediation is paramount. If voids are encountered during trenching or digging contact the New Mexico State Oil Conservation Division if on State land, and the Bureau of Land Management – Carlsbad Field Office at (575) 234-5972 if on BLM land and request an onsite investigation from a karst expert. A karst consultant can generally be onsite in Eddy County within five hours.

4.0 REFERENCES

1. Rybacki, K., *Karst Potential Map.* CFO Basemap, 2019.
2. Scholle, P.A., *Geologic Map of New Mexico.* 2003. (1:500,000).
3. Johnson, K.S., *Evaporite Karst in the United States.* Carbonates and Evaporites, 1997. **12(1)**: p. 2-14.
4. Martinez, J.D., K.S. Johnson, and J.T. Neal, *Sinkholes in Evaporite Rocks.* American Scientist, 1998. **86(1-2)**: p. 38-51.
5. Whitehead, W. and C. Flynn, *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology.* 2017, Carlsbad, NM: Bureau of Land Management, Carlsbad Field Office.

5.0 GLOSSARY OF TERMS

BLM	Bureau of Land Management
CFO	Carlsbad Field Office
cave	A natural opening at the surface, large enough for a person to enter.
GPS	Global Positioning System
NMSLO	New Mexico State Land Office
playa lake	A natural depression on the surface that collects rainwater. Some contain swallets and/or caves, others do not.
pseudokarst	Karst-like terrain that forms through processes other than dissolution.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
WGS	World Geodetic System

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS

Analytical Report 654824

for

LT Environmental, Inc.

Project Manager: Chris McKisson

RDU 42

034820001

10-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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

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

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

10-MAR-20

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

Reference: XENCO Report No(s): **654824**
RDU 42
Project Address: Rural Eddy County

Chris McKisson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 654824. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 654824 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

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

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

Sample Cross Reference 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	03-05-20 10:10	0.5 - 3.5 ft	654824-001
SW02	S	03-05-20 14:20	0.5 - 4 ft	654824-002
SW03	S	03-05-20 10:22	0.5 - 3 ft	654824-003
SW04	S	03-05-20 10:18	0.5 - 4 ft	654824-004
SW05	S	03-05-20 10:20	0.5 - 4 ft	654824-005
SW06	S	03-05-20 11:57	0.5 - 2 ft	654824-006
SW07	S	03-05-20 16:26	0.5 - 4 ft	654824-007
SW08	S	03-05-20 12:05	0.5 - 2 ft	654824-008
SW09	S	03-05-20 16:27	0.5 - 4 ft	654824-009
FS01	S	03-05-20 10:25	3.5 ft	654824-010
FS02	S	03-05-20 10:30	3.5 - 4.5 ft	654824-011
FS03	S	03-05-20 10:35	2 ft	654824-012
FS04	S	03-05-20 14:30	4 ft	654824-013
FS05	S	03-05-20 10:37	3 ft	654824-014
FS06	S	03-05-20 12:16	2 ft	654824-015
FS07	S	03-05-20 12:18	2 ft	654824-016
FS08	S	03-05-20 14:55	2 ft	654824-017
FS09	S	03-05-20 15:55	2 - 3 ft	654824-018
FS10	S	03-05-20 12:25	2 ft	654824-019
FS11	S	03-05-20 12:27	2 ft	654824-020
FS12	S	03-05-20 16:12	2 - 3 ft	654824-021
FS13	S	03-05-20 16:25	3 - 4 ft	654824-022

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: RDU 42

Project ID: *034820001*
Work Order Number(s): *654824*

Report Date: *10-MAR-20*
Date Received: *03/06/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3118876 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3118877 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 654824

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Fri Mar-06-20 12:00 pm
Report Date: 10-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654824-001		654824-002		654824-003		654824-004		654824-005		654824-006	
	Field Id:	SW01		SW02		SW03		SW04		SW05		SW06	
	Depth:	0.5-3.5 ft		0.5-4 ft		0.5-3 ft		0.5-4 ft		0.5-4 ft		0.5-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-05-20 10:10		Mar-05-20 14:20		Mar-05-20 10:22		Mar-05-20 10:18		Mar-05-20 10:20		Mar-05-20 11:57	
BTEX by EPA 8021B	*Extracted:*	Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00	
	Analyzed:	Mar-06-20 20:22		Mar-06-20 21:24		Mar-06-20 21:44		Mar-06-20 22:04		Mar-06-20 22:25		Mar-06-20 22:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00401	0.00401	<0.00403	0.00403	<0.00400	0.00400	<0.00402	0.00402	<0.00401	0.00401	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Xylenes, Total		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Chloride by EPA 300	*Extracted:*	Mar-06-20 17:30		Mar-06-20 14:06		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30	
	Analyzed:	Mar-07-20 05:26		Mar-06-20 14:20		Mar-07-20 06:03		Mar-07-20 06:15		Mar-07-20 06:28		Mar-07-20 06:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<9.98	9.98	347	9.94	151	9.98	10.1	9.98	<9.96	9.96	<9.88	9.88
TPH by SW8015 Mod	*Extracted:*	Mar-06-20 14:00		Mar-06-20 14:00		Mar-06-20 14:00		Mar-06-20 14:00		Mar-06-20 14:00		Mar-06-20 14:00	
	Analyzed:	Mar-06-20 19:24		Mar-06-20 20:04		Mar-06-20 20:24		Mar-06-20 20:44		Mar-06-20 21:04		Mar-06-20 21:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.2	50.2	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.2	50.2
Diesel Range Organics (DRO)		<50.3	50.3	<50.2	50.2	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.2	50.2	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.2	50.2
Total GRO-DRO		<50.3	50.3	<50.2	50.2	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.2	50.2
Total TPH		<50.3	50.3	<50.2	50.2	<49.8	49.8	<50.2	50.2	<49.8	49.8	<50.2	50.2

Jessica Kramer
Project Manager

Certificate of Analysis Summary 654824

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Fri Mar-06-20 12:00 pm
Report Date: 10-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654824-007		654824-008		654824-009		654824-010		654824-011		654824-012	
	Field Id:	SW07		SW08		SW09		FS01		FS02		FS03	
	Depth:	0.5-4 ft		0.5-2 ft		0.5-4 ft		3.5- ft		3.5-4.5 ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-05-20 16:26		Mar-05-20 12:05		Mar-05-20 16:27		Mar-05-20 10:25		Mar-05-20 10:30		Mar-05-20 10:35	
BTEX by EPA 8021B	*Extracted:*	Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 18:00	
	Analyzed:	Mar-06-20 23:05		Mar-06-20 23:26		Mar-06-20 23:46		Mar-07-20 00:07		Mar-07-20 00:27		Mar-07-20 04:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201
Toluene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201
m,p-Xylenes		<0.00403	0.00403	<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402	<0.00397	0.00397	<0.00402	0.00402
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201
Xylenes, Total		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201
Total BTEX		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201
Chloride by EPA 300	*Extracted:*	Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30	
	Analyzed:	Mar-07-20 09:34		Mar-07-20 09:39		Mar-07-20 09:45		Mar-07-20 09:50		Mar-07-20 09:56		Mar-07-20 10:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		160	9.98	213	9.98	117	9.92	<9.88	9.88	31.2	10.0	82.1	9.96
TPH by SW8015 Mod	*Extracted:*	Mar-06-20 14:00		Mar-06-20 14:00		Mar-06-20 14:00		Mar-06-20 14:00		Mar-06-20 14:00		Mar-06-20 16:30	
	Analyzed:	Mar-06-20 21:45		Mar-06-20 22:05		Mar-06-20 22:25		Mar-06-20 22:45		Mar-06-20 23:05		Mar-07-20 01:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<49.9	49.9	75.0	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<49.9	49.9	<49.9	49.9
Total GRO-DRO		<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<49.9	49.9	75.0	49.9
Total TPH		<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<49.9	49.9	75.0	49.9

Jessica Kramer
Project Manager

Certificate of Analysis Summary 654824

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Fri Mar-06-20 12:00 pm
Report Date: 10-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654824-013		654824-014		654824-015		654824-016		654824-017		654824-018	
	Field Id:	FS04		FS05		FS06		FS07		FS08		FS09	
	Depth:	4- ft		3- ft		2- ft		2- ft		2- ft		2-3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-05-20 14:30		Mar-05-20 10:37		Mar-05-20 12:16		Mar-05-20 12:18		Mar-05-20 14:55		Mar-05-20 15:55	
BTEX by EPA 8021B	*Extracted:*	Mar-06-20 18:00		Mar-06-20 18:00		Mar-06-20 18:00		Mar-06-20 18:00		Mar-06-20 18:00		Mar-06-20 18:00	
	Analyzed:	Mar-07-20 03:39		Mar-07-20 04:20		Mar-07-20 04:41		Mar-07-20 05:01		Mar-07-20 05:21		Mar-07-20 05:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198
Toluene		<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198
m,p-Xylenes		<0.00401	0.00401	<0.00402	0.00402	<0.00402	0.00402	<0.00402	0.00402	<0.00404	0.00404	<0.00396	0.00396
o-Xylene		<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198
Xylenes, Total		<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198
Total BTEX		<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198
Chloride by EPA 300	*Extracted:*	Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 14:06		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30	
	Analyzed:	Mar-07-20 10:01		Mar-07-20 10:07		Mar-06-20 14:37		Mar-07-20 10:13		Mar-07-20 10:18		Mar-07-20 10:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		585	10.1	117	9.94	519	9.98	353	9.98	288	10.0	190	10.0
TPH by SW8015 Mod	*Extracted:*	Mar-06-20 16:30		Mar-06-20 16:30		Mar-06-20 16:30		Mar-06-20 16:30		Mar-06-20 16:30		Mar-06-20 16:30	
	Analyzed:	Mar-07-20 00:46		Mar-07-20 02:06		Mar-07-20 02:26		Mar-07-20 02:46		Mar-07-20 03:06		Mar-07-20 03:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1	<50.1	50.1
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1	<50.1	50.1
Total GRO-DRO		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1	<50.1	50.1
Total TPH		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1	<50.1	50.1

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 654824

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Fri Mar-06-20 12:00 pm
Report Date: 10-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654824-019		654824-020		654824-021		654824-022					
	Field Id:	FS10		FS11		FS12		FS13					
	Depth:	2- ft		2- ft		2-3 ft		3-4 ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Mar-05-20 12:25		Mar-05-20 12:27		Mar-05-20 16:12		Mar-05-20 16:25					
BTEX by EPA 8021B	***Extracted:***	Mar-06-20 18:00		Mar-06-20 18:00		Mar-06-20 18:00		Mar-06-20 18:00					
	Analyzed:	Mar-07-20 06:02		Mar-07-20 06:23		Mar-07-20 07:24		Mar-07-20 07:44					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201				
Toluene		<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201				
Ethylbenzene		<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201				
m,p-Xylenes		<0.00402	0.00402	<0.00402	0.00402	<0.00398	0.00398	<0.00402	0.00402				
o-Xylene		<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201				
Xylenes, Total		<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201				
Total BTEX		<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199	<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30					
	Analyzed:	Mar-07-20 11:14		Mar-07-20 11:20		Mar-07-20 11:25		Mar-07-20 11:31					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		283	9.92	270	9.98	220	9.92	285	9.98				
TPH by SW8015 Mod	***Extracted:***	Mar-06-20 16:30		Mar-06-20 16:30		Mar-06-20 16:30		Mar-06-20 16:30					
	Analyzed:	Mar-07-20 03:46		Mar-07-20 02:26		Mar-07-20 02:46		Mar-07-20 03:06					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.1	50.1				
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.1	50.1				
Total GRO-DRO		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.1	50.1				
Total TPH		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.1	50.1				

Jessica Kramer
Project Manager

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-001	Date Collected:	03.05.20 10.10	Sample Depth:	0.5 - 3.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	03.07.20 05.26	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.06.20 19.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.06.20 19.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.06.20 19.24	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.06.20 19.24	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.06.20 19.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	03.06.20 19.24	
o-Terphenyl	84-15-1	96	%	70-135	03.06.20 19.24	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-001	Date Collected:	03.05.20 10.10	Sample Depth:	0.5 - 3.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.06.20 20.22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.06.20 20.22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.06.20 20.22	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.06.20 20.22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.06.20 20.22	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.06.20 20.22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.06.20 20.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.06.20 20.22	
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.06.20 20.22	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-002	Date Collected:	03.05.20 14.20	Sample Depth:	0.5 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 14.06	Basis:	Wet Weight
Seq Number:	3118879				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**347**	9.94	mg/kg	03.06.20 14.20		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.06.20 20.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.06.20 20.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.06.20 20.04	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.06.20 20.04	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.06.20 20.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	03.06.20 20.04	
o-Terphenyl	84-15-1	117	%	70-135	03.06.20 20.04	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-002	Date Collected:	03.05.20 14.20	Sample Depth:	0.5 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.06.20 21.24	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.06.20 21.24	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.06.20 21.24	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.06.20 21.24	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.06.20 21.24	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.06.20 21.24	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.06.20 21.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.06.20 21.24	
4-Bromofluorobenzene	460-00-4	91	%	70-130	03.06.20 21.24	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-003	Date Collected:	03.05.20 10.22	Sample Depth:	0.5 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**151**	9.98	mg/kg	03.07.20 06.03		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.06.20 20.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.06.20 20.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.06.20 20.24	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	03.06.20 20.24	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.06.20 20.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.06.20 20.24	
o-Terphenyl	84-15-1	118	%	70-135	03.06.20 20.24	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-003	Date Collected:	03.05.20 10.22	Sample Depth:	0.5 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.06.20 21.44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.06.20 21.44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.06.20 21.44	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.06.20 21.44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.06.20 21.44	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.06.20 21.44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.06.20 21.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.06.20 21.44	
4-Bromofluorobenzene	460-00-4	89	%	70-130	03.06.20 21.44	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-004	Date Collected:	03.05.20 10.18	Sample Depth:	0.5 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.1**	9.98	mg/kg	03.07.20 06.15		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.06.20 20.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.06.20 20.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.06.20 20.44	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.06.20 20.44	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.06.20 20.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	03.06.20 20.44	
o-Terphenyl	84-15-1	109	%	70-135	03.06.20 20.44	

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RDU 42

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-004	Date Collected:	03.05.20 10.18	Sample Depth:	0.5 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.06.20 22.04	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.06.20 22.04	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.06.20 22.04	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.06.20 22.04	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.06.20 22.04	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.06.20 22.04	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.06.20 22.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	03.06.20 22.04	
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.06.20 22.04	

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RDU 42

Sample Id:	**SW05**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-005	Date Collected:	03.05.20 10.20	Sample Depth:	0.5 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	03.07.20 06.28	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.06.20 21.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.06.20 21.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.06.20 21.04	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	03.06.20 21.04	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.06.20 21.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	03.06.20 21.04	
o-Terphenyl	84-15-1	125	%	70-135	03.06.20 21.04	

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Sample Id:	**SW05**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-005	Date Collected:	03.05.20 10.20	Sample Depth:	0.5 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.06.20 22.25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.06.20 22.25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.06.20 22.25	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.06.20 22.25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.06.20 22.25	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.06.20 22.25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.06.20 22.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	03.06.20 22.25	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.06.20 22.25	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-006	Date Collected:	03.05.20 11.57	Sample Depth:	0.5 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.88	9.88	mg/kg	03.07.20 06.40	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.06.20 21.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.06.20 21.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.06.20 21.25	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.06.20 21.25	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.06.20 21.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	03.06.20 21.25	
o-Terphenyl	84-15-1	110	%	70-135	03.06.20 21.25	

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RDU 42

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-006	Date Collected:	03.05.20 11.57	Sample Depth:	0.5 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.06.20 22.45	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.06.20 22.45	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.06.20 22.45	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.06.20 22.45	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.06.20 22.45	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.06.20 22.45	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.06.20 22.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.06.20 22.45	
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.06.20 22.45	

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RDU 42

Sample Id:	**SW07**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-007	Date Collected:	03.05.20 16.26	Sample Depth:	0.5 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**160**	9.98	mg/kg	03.07.20 09.34		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.06.20 21.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.20 21.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.20 21.45	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.06.20 21.45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.06.20 21.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.06.20 21.45	
o-Terphenyl	84-15-1	101	%	70-135	03.06.20 21.45	

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RDU 42

Sample Id:	**SW07**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-007	Date Collected:	03.05.20 16.26	Sample Depth:	0.5 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.06.20 23.05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.06.20 23.05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.06.20 23.05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.06.20 23.05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.06.20 23.05	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.06.20 23.05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.06.20 23.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	03.06.20 23.05	
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.06.20 23.05	

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RDU 42

Sample Id:	**SW08**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-008	Date Collected:	03.05.20 12.05	Sample Depth:	0.5 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**213**	9.98	mg/kg	03.07.20 09.39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.06.20 22.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.06.20 22.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.06.20 22.05	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.06.20 22.05	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.06.20 22.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	03.06.20 22.05	
o-Terphenyl	84-15-1	119	%	70-135	03.06.20 22.05	

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RDU 42

Sample Id:	**SW08**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-008	Date Collected:	03.05.20 12.05	Sample Depth:	0.5 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.06.20 23.26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.06.20 23.26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.06.20 23.26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.06.20 23.26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.06.20 23.26	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	03.06.20 23.26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.06.20 23.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.06.20 23.26	
4-Bromofluorobenzene	460-00-4	89	%	70-130	03.06.20 23.26	

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RDU 42

Sample Id:	**SW09**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-009	Date Collected:	03.05.20 16.27	Sample Depth:	0.5 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**117**	9.92	mg/kg	03.07.20 09.45		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.06.20 22.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.06.20 22.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.06.20 22.25	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.06.20 22.25	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.06.20 22.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.06.20 22.25	
o-Terphenyl	84-15-1	117	%	70-135	03.06.20 22.25	

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RDU 42

Sample Id:	**SW09**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-009	Date Collected:	03.05.20 16.27	Sample Depth:	0.5 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.06.20 23.46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.06.20 23.46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.06.20 23.46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.06.20 23.46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.06.20 23.46	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	03.06.20 23.46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.06.20 23.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.06.20 23.46	
4-Bromofluorobenzene	460-00-4	91	%	70-130	03.06.20 23.46	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-010	Date Collected:	03.05.20 10.25	Sample Depth:	3.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.88	9.88	mg/kg	03.07.20 09.50	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.06.20 22.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.20 22.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.20 22.45	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.06.20 22.45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.06.20 22.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	03.06.20 22.45	
o-Terphenyl	84-15-1	122	%	70-135	03.06.20 22.45	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-010	Date Collected:	03.05.20 10.25	Sample Depth:	3.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.20 00.07	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.20 00.07	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.20 00.07	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.20 00.07	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.20 00.07	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.07.20 00.07	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.20 00.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.07.20 00.07	
4-Bromofluorobenzene	460-00-4	91	%	70-130	03.07.20 00.07	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-011	Date Collected:	03.05.20 10.30	Sample Depth:	3.5 - 4.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.2**	10.0	mg/kg	03.07.20 09.56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 14.00	Basis:	Wet Weight
Seq Number:	3118898				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.06.20 23.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.06.20 23.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.06.20 23.05	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.06.20 23.05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.06.20 23.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	03.06.20 23.05	
o-Terphenyl	84-15-1	123	%	70-135	03.06.20 23.05	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-011	Date Collected:	03.05.20 10.30	Sample Depth:	3.5 - 4.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118876				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.07.20 00.27	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.07.20 00.27	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.07.20 00.27	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.07.20 00.27	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.07.20 00.27	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	03.07.20 00.27	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.07.20 00.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.07.20 00.27	
1,4-Difluorobenzene	540-36-3	95	%	70-130	03.07.20 00.27	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-012	Date Collected:	03.05.20 10.35	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**82.1**	9.96	mg/kg	03.07.20 10.57		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.07.20 01.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	**75.0**	49.9	mg/kg	03.07.20 01.46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.07.20 01.46	U	1
Total GRO-DRO	PHC628	**75.0**	49.9	mg/kg	03.07.20 01.46		1
Total TPH	PHC635	**75.0**	49.9	mg/kg	03.07.20 01.46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	03.07.20 01.46	
o-Terphenyl	84-15-1	100	%	70-135	03.07.20 01.46	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-012	Date Collected:	03.05.20 10.35	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.20 04.00	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.20 04.00	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.20 04.00	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.20 04.00	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.20 04.00	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.07.20 04.00	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.20 04.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	03.07.20 04.00	
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.07.20 04.00	

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RDU 42

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-013	Date Collected:	03.05.20 14.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**585**	10.1	mg/kg	03.07.20 10.01		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.07.20 00.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.07.20 00.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.07.20 00.46	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.07.20 00.46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.07.20 00.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	03.07.20 00.46	
o-Terphenyl	84-15-1	102	%	70-135	03.07.20 00.46	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-013	Date Collected:	03.05.20 14.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.07.20 03.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.07.20 03.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.07.20 03.39	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.07.20 03.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.07.20 03.39	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.07.20 03.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.07.20 03.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.07.20 03.39	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.07.20 03.39	

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RDU 42

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-014	Date Collected:	03.05.20 10.37	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**117**	9.94	mg/kg	03.07.20 10.07		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.07.20 02.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.07.20 02.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.07.20 02.06	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.07.20 02.06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.07.20 02.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	03.07.20 02.06	
o-Terphenyl	84-15-1	103	%	70-135	03.07.20 02.06	

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RDU 42

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-014	Date Collected:	03.05.20 10.37	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.20 04.20	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.20 04.20	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.20 04.20	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.20 04.20	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.20 04.20	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.07.20 04.20	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.20 04.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	03.07.20 04.20	
4-Bromofluorobenzene	460-00-4	96	%	70-130	03.07.20 04.20	

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RDU 42

Sample Id:	**FS06**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-015	Date Collected:	03.05.20 12.16	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 14.06	Basis:	Wet Weight
Seq Number:	3118879				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**519**	9.98	mg/kg	03.06.20 14.37		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.07.20 02.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.07.20 02.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.07.20 02.26	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.07.20 02.26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.07.20 02.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	03.07.20 02.26	
o-Terphenyl	84-15-1	100	%	70-135	03.07.20 02.26	

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RDU 42

Sample Id:	**FS06**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-015	Date Collected:	03.05.20 12.16	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.20 04.41	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.20 04.41	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.20 04.41	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.20 04.41	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.20 04.41	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.07.20 04.41	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.20 04.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	03.07.20 04.41	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.07.20 04.41	

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RDU 42

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-016	Date Collected:	03.05.20 12.18	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**353**	9.98	mg/kg	03.07.20 10.13		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.07.20 02.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.07.20 02.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.07.20 02.46	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.07.20 02.46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.07.20 02.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	03.07.20 02.46	
o-Terphenyl	84-15-1	100	%	70-135	03.07.20 02.46	

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RDU 42

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-016	Date Collected:	03.05.20 12.18	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.20 05.01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.20 05.01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.20 05.01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.20 05.01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.20 05.01	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.07.20 05.01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.20 05.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.07.20 05.01	
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.07.20 05.01	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-017	Date Collected:	03.05.20 14.55	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**288**	10.0	mg/kg	03.07.20 10.18		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.07.20 03.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.07.20 03.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.07.20 03.06	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.07.20 03.06	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.07.20 03.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	03.07.20 03.06	
o-Terphenyl	84-15-1	103	%	70-135	03.07.20 03.06	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-017	Date Collected:	03.05.20 14.55	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.07.20 05.21	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.07.20 05.21	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.07.20 05.21	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	03.07.20 05.21	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.07.20 05.21	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.07.20 05.21	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.07.20 05.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	03.07.20 05.21	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.07.20 05.21	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS09**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-018	Date Collected:	03.05.20 15.55	Sample Depth:	2 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**190**	10.0	mg/kg	03.07.20 10.24		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.07.20 03.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.07.20 03.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.07.20 03.26	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.07.20 03.26	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.07.20 03.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	03.07.20 03.26	
o-Terphenyl	84-15-1	103	%	70-135	03.07.20 03.26	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS09**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-018	Date Collected:	03.05.20 15.55	Sample Depth:	2 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.07.20 05.42	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.07.20 05.42	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.07.20 05.42	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.07.20 05.42	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.07.20 05.42	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	03.07.20 05.42	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.07.20 05.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.07.20 05.42	
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.07.20 05.42	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS10**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-019	Date Collected:	03.05.20 12.25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**283**	9.92	mg/kg	03.07.20 11.14		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.07.20 03.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.07.20 03.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.07.20 03.46	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.07.20 03.46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.07.20 03.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	03.07.20 03.46	
o-Terphenyl	84-15-1	100	%	70-135	03.07.20 03.46	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS10**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-019	Date Collected:	03.05.20 12.25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.20 06.02	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.20 06.02	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.20 06.02	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.20 06.02	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.20 06.02	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.07.20 06.02	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.20 06.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.07.20 06.02	
4-Bromofluorobenzene	460-00-4	98	%	70-130	03.07.20 06.02	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS11**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-020	Date Collected:	03.05.20 12.27	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**270**	9.98	mg/kg	03.07.20 11.20		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118904				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.07.20 02.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.07.20 02.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.07.20 02.26	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.07.20 02.26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.07.20 02.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	03.07.20 02.26	
o-Terphenyl	84-15-1	122	%	70-135	03.07.20 02.26	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS11**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-020	Date Collected:	03.05.20 12.27	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.20 06.23	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.20 06.23	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.20 06.23	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.20 06.23	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.20 06.23	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.07.20 06.23	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.20 06.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.07.20 06.23	
4-Bromofluorobenzene	460-00-4	94	%	70-130	03.07.20 06.23	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-021	Date Collected:	03.05.20 16.12	Sample Depth:	2 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**220**	9.92	mg/kg	03.07.20 11.25		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118904				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.07.20 02.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.07.20 02.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.07.20 02.46	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.07.20 02.46	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.07.20 02.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.07.20 02.46	
o-Terphenyl	84-15-1	117	%	70-135	03.07.20 02.46	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-021	Date Collected:	03.05.20 16.12	Sample Depth:	2 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.07.20 07.24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.07.20 07.24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.07.20 07.24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.07.20 07.24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.07.20 07.24	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	03.07.20 07.24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.07.20 07.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.07.20 07.24	
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.07.20 07.24	

Certificate of Analytical Results 654824

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-022	Date Collected:	03.05.20 16.25	Sample Depth:	3 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**285**	9.98	mg/kg	03.07.20 11.31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.06.20 16.30	Basis:	Wet Weight
Seq Number:	3118904				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.07.20 03.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.07.20 03.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.07.20 03.06	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.07.20 03.06	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.07.20 03.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	03.07.20 03.06	
o-Terphenyl	84-15-1	103	%	70-135	03.07.20 03.06	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	03.06.20 12.00
Lab Sample Id:	654824-022	Date Collected:	03.05.20 16.25	Sample Depth:	3 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 18.00	Basis:	Wet Weight
Seq Number:	3118877				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.07.20 07.44	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.07.20 07.44	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.07.20 07.44	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.07.20 07.44	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.07.20 07.44	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.07.20 07.44	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.07.20 07.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	03.07.20 07.44	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.07.20 07.44	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 654824

LT Environmental, Inc.

RDU 42

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118879 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698303-1-BLK — LCS Sample Id: 7698303-1-BKS — LCSD Sample Id: 7698303-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	264	106	265	106	90-110	0	20	mg/kg	03.06.20 14:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118884 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698327-1-BLK — LCS Sample Id: 7698327-1-BKS — LCSD Sample Id: 7698327-1-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	265	106	268	107	90-110	1	20	mg/kg	03.07.20 03:12	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118887 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698328-1-BLK — LCS Sample Id: 7698328-1-BKS — LCSD Sample Id: 7698328-1-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	263	105	262	105	90-110	0	20	mg/kg	03.07.20 10:46	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118879 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654823-002 — MS Sample Id: 654823-002 S — MSD Sample Id: 654823-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	272	198	483	107	484	107	90-110	0	20	mg/kg	03.06.20 15:44	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118879 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654824-002 — MS Sample Id: 654824-002 S — MSD Sample Id: 654824-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	347	199	557	106	557	106	90-110	0	20	mg/kg	03.06.20 14:25	

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

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

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

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

QC Summary 654824

LT Environmental, Inc.

RDU 42

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118884 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654824-001 — MS Sample Id: 654824-001 S — MSD Sample Id: 654824-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	215	108	219	110	90-110	2	20	mg/kg	03.07.20 05:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118884 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654839-008 — MS Sample Id: 654839-008 S — MSD Sample Id: 654839-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	361	200	576	108	574	107	90-110	0	20	mg/kg	03.07.20 03:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118887 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654824-012 — MS Sample Id: 654824-012 S — MSD Sample Id: 654824-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	82.1	201	302	109	293	106	90-110	3	20	mg/kg	03.07.20 11:03	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118898 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698292-1-BLK — LCS Sample Id: 7698292-1-BKS — LCSD Sample Id: 7698292-1-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	805	81	816	82	70-135	1	35	mg/kg	03.06.20 12:30	
Diesel Range Organics (DRO)	<50.0	1000	791	79	794	79	70-135	0	35	mg/kg	03.06.20 12:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	85		92		93		70-135	%	03.06.20 12:30
o-Terphenyl	96		98		98		70-135	%	03.06.20 12:30

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

QC Summary 654824

LT Environmental, Inc.

RDU 42

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118902 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698361-1-BLK — LCS Sample Id: 7698361-1-BKS — LCSD Sample Id: 7698361-1-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	938	94	945	95	70-135	1	35	mg/kg	03.07.20 00:05	
Diesel Range Organics (DRO)	<50.0	1000	843	84	844	84	70-135	0	35	mg/kg	03.07.20 00:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		118		118		70-135	%	03.07.20 00:05
o-Terphenyl	98		102		101		70-135	%	03.07.20 00:05

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118904 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698364-1-BLK — LCS Sample Id: 7698364-1-BKS — LCSD Sample Id: 7698364-1-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	793	79	785	79	70-135	1	35	mg/kg	03.07.20 00:05	
Diesel Range Organics (DRO)	<50.0	1000	771	77	754	75	70-135	2	35	mg/kg	03.07.20 00:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		91		90		70-135	%	03.07.20 00:05
o-Terphenyl	91		98		95		70-135	%	03.07.20 00:05

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118898 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698292-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.06.20 12:10	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118902 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698361-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.06.20 23:45	

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

QC Summary 654824

LT Environmental, Inc.

RDU 42

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118904 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698364-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.06.20 23:45	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118898 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654844-002 — MS Sample Id: 654844-002 S — MSD Sample Id: 654844-002 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)	<50.3	1010	947	94	988	99	70-135	4	35	mg/kg	03.07.20 05:45	
Diesel Range Organics (DRO)	<50.3	1010	912	90	952	95	70-135	4	35	mg/kg	03.07.20 05:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		113		70-135	%	03.07.20 05:45
o-Terphenyl	117		121		70-135	%	03.07.20 05:45

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118902 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654824-013 — MS Sample Id: 654824-013 S — MSD Sample Id: 654824-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	973	97	1010	102	70-135	4	35	mg/kg	03.07.20 01:06	
Diesel Range Organics (DRO)	<50.0	999	880	88	919	92	70-135	4	35	mg/kg	03.07.20 01:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		129		70-135	%	03.07.20 01:06
o-Terphenyl	109		112		70-135	%	03.07.20 01:06

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118904 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654839-008 — MS Sample Id: 654839-008 S — MSD Sample Id: 654839-008 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	1050	105	1070	107	70-135	2	35	mg/kg	03.07.20 01:06	
Diesel Range Organics (DRO)	<50.2	1000	1000	100	1030	103	70-135	3	35	mg/kg	03.07.20 01:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		123		70-135	%	03.07.20 01:06
o-Terphenyl	131		133		70-135	%	03.07.20 01:06

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

QC Summary 654824

LT Environmental, Inc.

RDU 42

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118876 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698330-1-BLK — LCS Sample Id: 7698330-1-BKS — LCSD Sample Id: 7698330-1-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	0.123	123	0.121	121	70-130	2	35	mg/kg	03.06.20 15:37	
Toluene	<0.00200	0.100	0.113	113	0.120	120	70-130	6	35	mg/kg	03.06.20 15:37	
Ethylbenzene	<0.00200	0.100	0.107	107	0.114	114	71-129	6	35	mg/kg	03.06.20 15:37	
m,p-Xylenes	<0.00400	0.200	0.208	104	0.223	112	70-135	7	35	mg/kg	03.06.20 15:37	
o-Xylene	<0.00200	0.100	0.105	105	0.113	113	71-133	7	35	mg/kg	03.06.20 15:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		111		111		70-130	%	03.06.20 15:37
4-Bromofluorobenzene	93		90		91		70-130	%	03.06.20 15:37

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118877 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698331-1-BLK — LCS Sample Id: 7698331-1-BKS — LCSD Sample Id: 7698331-1-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	0.112	112	0.113	113	70-130	1	35	mg/kg	03.07.20 01:57	
Toluene	<0.00200	0.100	0.107	107	0.108	108	70-130	1	35	mg/kg	03.07.20 01:57	
Ethylbenzene	<0.00200	0.100	0.101	101	0.102	102	71-129	1	35	mg/kg	03.07.20 01:57	
m,p-Xylenes	<0.00400	0.200	0.207	104	0.208	104	70-135	0	35	mg/kg	03.07.20 01:57	
o-Xylene	<0.00200	0.100	0.105	105	0.105	105	71-133	0	35	mg/kg	03.07.20 01:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		107		108		70-130	%	03.07.20 01:57
4-Bromofluorobenzene	93		93		91		70-130	%	03.07.20 01:57

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118876 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654844-002 — MS Sample Id: 654844-002 S — MSD Sample Id: 654844-002 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	0.108	108	0.110	110	70-130	2	35	mg/kg	03.07.20 05:13	
Toluene	<0.00200	0.0998	0.0983	98	0.0999	100	70-130	2	35	mg/kg	03.07.20 05:13	
Ethylbenzene	<0.00200	0.0998	0.0928	93	0.0945	95	71-129	2	35	mg/kg	03.07.20 05:13	
m,p-Xylenes	<0.00399	0.200	0.181	91	0.184	92	70-135	2	35	mg/kg	03.07.20 05:13	
o-Xylene	<0.00200	0.0998	0.0924	93	0.0940	94	71-133	2	35	mg/kg	03.07.20 05:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		111		70-130	%	03.07.20 05:13
4-Bromofluorobenzene	90		91		70-130	%	03.07.20 05:13

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

QC Summary 654824

LT Environmental, Inc.

RDU 42

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

Seq Number: 3118877 Matrix: Soil Date Prep: 03.06.20

Parent Sample Id: 654824-013 MS Sample Id: 654824-013 S MSD Sample Id: 654824-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0978	97	0.0903	90	70-130	8	35	mg/kg	03.07.20 02:38	
Toluene	<0.00202	0.101	0.0969	96	0.0916	92	70-130	6	35	mg/kg	03.07.20 02:38	
Ethylbenzene	<0.00202	0.101	0.0939	93	0.0873	87	71-129	7	35	mg/kg	03.07.20 02:38	
m,p-Xylenes	<0.00403	0.202	0.199	99	0.182	91	70-135	9	35	mg/kg	03.07.20 02:38	
o-Xylene	<0.00202	0.101	0.101	100	0.0947	95	71-133	6	35	mg/kg	03.07.20 02:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		104		70-130	%	03.07.20 02:38
4-Bromofluorobenzene	94		91		70-130	%	03.07.20 02:38

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Chain of Custody

XENCO LABORATORIES

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

Work Order No: 654824

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Project Manager:	Chris McKisson	Bill to: (if different)	→
Company Name:	LT Environmental	Company Name:	→
Address:	820 Megan Ave, Unit B	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	970 285 9985	Email:	cmckisson@ltenv.com & abyers@ltenv.com

Work Order Comments

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

Project Name:	RDU 42	Turn Around	
Project Number:	034820001	Routine	☒
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	1-6-20 Spill Date	Quote #:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.0	Thermometer ID	T-NM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	24

ANALYSIS REQUEST

Preservative Codes

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

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

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
	SW01	S	3/5/20	1010	0.5 - 3.5'	1					
	SW02	S		1420	0.5 - 4'	1					24 HR RUSH CHLORIDE ONLY
	SW03	S		1022	0.5 - 3'	1					
	SW04	S		1018	0.5 - 4'	1					
	SW05	S		1020	0.5 - 4'	1					
	SW06	S		1157	0.5 - 2'	1					
	SW07	S		1626	0.5 - 4'	1					
	SW08	S		1205	0.5 - 2'	1					
	SW09	S		1627	0.5 - 4'	1					
	FS01	S	✓	1025	3.5'	1					

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

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers		3/6/20 @1140	2		3/6/20 1200
			4		
			6		

Revised Date 022619 Rev. 2019.1

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
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Work Order No: 654824

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Project Manager:	Chris McKisson	~~Bill to: (if different)~~	→
Company Name:	LT Environmental	~~Company Name:~~	→
Address:	820 Megan Ave, Unit B	Address:	
City, State ZIP:	Rifle CO 81650	City, State ZIP:	
Phone:	970 285 9985	Email:	cmckisson@ltenv.com & abyers@ltenv.com

Work Order Comments

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

Project Name:	ROW 42	Turn Around	
Project Number:	034820001	Routine ☑	
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	1-6-20 Spill Date	Quote #:	

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

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
	FS02	S	3/5/20	1030	3.5-4.5'	1				
	FS03	S		1035	2'	1				
	FS04	S		1430	4'	1				
	FS05	S		1037	3'	1				
	FS06	S		1216	2'	2				
	FS07	S		1218'	2'	1				
	FS08	S		1455	2'	1				
	FS09	S		1555	2-3'	1				
	FS10	S		1225	2'	1				
	FS11	S		1227	2'	1				

24 HR RUSH Chloride Only

Preservative Codes

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

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

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

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

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

1631 / 245.1 / 7470 / 7471 : Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers		3/6/20 @1140	2		3/6/20 12:00
			4		
			6		

Revised Date 022619 Rev. 2019.1

Chain of Custody

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

Work Order No: 654824

Project Manager:	Chris McKisson	Bill to: (if different)	
Company Name:	LT Environmental	Company Name:	
Address:	820 Megan Ave, Unit B	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	970 285 9985	Email:	cmckisson@ltenv.com & abyers@ltenv.com

Work Order Comments

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

Project Name:	RDU 42	Turn Around	
Project Number:	034820001	Routine ☑	
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	1-6-20 Spill Date	Quote #:	

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

Preservative Codes

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

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

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
	FS12	S	3/5/20	1612	2-3'	1		X	X	X	
	FS13	S	3/5/20	1625	3-4'	1		X	X	X	

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

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers		3/6/20 @1140	2		3/6/20 1200
			4		
			6		

Revised Date 022619 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.06.2020 12.00.00 PM

Work Order #: 654824

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)?	0
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.06.2020

Checklist reviewed by: Jessica Kramer Date: 03.09.2020

Jessica Kramer

Analytical Report 654990

for

LT Environmental, Inc.

Project Manager: Chris McKisson

RDU 42

034820001

13-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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

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

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

13-MAR-20

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

Reference: XENCO Report No(s): **654990**
RDU 42
Project Address: Rural Eddy County

Chris McKisson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 654990. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 654990 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

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

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

Sample Cross Reference 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS14	S	03-06-20 11:15	0.5 ft	654990-001
FS15	S	03-06-20 11:20	0.3 - 0.5 ft	654990-002
FS16	S	03-06-20 11:25	0.3 - 0.5 ft	654990-003
FS17	S	03-06-20 11:42	0.3 ft	654990-004
FS18	S	03-06-20 11:48	0.3 ft	654990-005
FS19	S	03-06-20 11:50	0.3 ft	654990-006
FS20	S	03-06-20 11:51	0.3 ft	654990-007
FS21	S	03-06-20 11:53	0.3 ft	654990-008
FS22	S	03-06-20 11:56	0.3 ft	654990-009
FS23	S	03-06-20 11:58	0.3 ft	654990-010
FS24	S	03-06-20 12:00	0.3 ft	654990-011
FS25	S	03-06-20 12:58	0.3 ft	654990-012
FS26	S	03-06-20 12:59	0.3 ft	654990-013
FS27	S	03-06-20 13:02	0.3 ft	654990-014
FS28	S	03-06-20 13:05	0.3 ft	654990-015
FS29	S	03-06-20 13:06	0.3 ft	654990-016
FS30	S	03-06-20 14:25	0.3 ft	654990-017
FS31	S	03-06-20 14:28	0.3 ft	654990-018
FS32	S	03-06-20 14:31	0.3 ft	654990-019
FS33	S	03-06-20 14:33	0.3 - 0.5 ft	654990-020
FS34	S	03-06-20 14:35	0.3 - 0.5 ft	654990-021
FS35	S	03-06-20 14:37	0.3 ft	654990-022
FS37	S	03-06-20 14:51	0.3 - 0.5 ft	654990-023
FS36	S	03-06-20 14:49	0.3 - 0.5 ft	654990-024
FS38	S	03-06-20 14:52	0.3 - 0.5 ft	654990-025
FS39	S	03-06-20 14:55	0.3 - 0.5 ft	654990-026
FS40	S	03-06-20 14:57	0.3 - 0.5 ft	654990-027
FS41	S	03-06-20 15:00	0.5 ft	654990-028

CASE NARRATIVE

Client Name: LT Environmental, Inc.
Project Name: RDU 42

Project ID: *034820001*
Work Order Number(s): *654990*

Report Date: *13-MAR-20*
Date Received: *03/09/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3119020 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3119021 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3119022 Chloride by EPA 300
Lab Sample ID 654990-026 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 654990-026, -027, -028.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3119031 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 654990

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Mon Mar-09-20 12:03 pm
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654990-001		654990-002		654990-003		654990-004		654990-005		654990-006	
	Field Id:	FS14		FS15		FS16		FS17		FS18		FS19	
	Depth:	0.5- ft		0.3-0.5 ft		0.3-0.5 ft		0.3- ft		0.3- ft		0.3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-06-20 11:15		Mar-06-20 11:20		Mar-06-20 11:25		Mar-06-20 11:42		Mar-06-20 11:48		Mar-06-20 11:50	
BTEX by EPA 8021B	*Extracted:*	Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 14:00	
	Analyzed:	Mar-09-20 20:52		Mar-09-20 22:14		Mar-09-20 21:13		Mar-09-20 21:33		Mar-09-20 21:54		Mar-09-20 15:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00926	0.00926	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00926	0.00926	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	0.0468	0.00926	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00404	0.00404	0.139	0.0185	<0.00402	0.00402	<0.00402	0.00402	<0.00402	0.00402	<0.00399	0.00399
o-Xylene		<0.00202	0.00202	0.0935	0.00926	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Xylenes, Total		<0.00202	0.00202	0.233	0.00926	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	0.279	0.00926	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Chloride by EPA 300	*Extracted:*	Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 14:33	
	Analyzed:	** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **		Mar-09-20 16:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		785	49.9	132	49.6	182	50.1	3190	100	3220	100	3150	100
TPH by SW8015 Mod	*Extracted:*	Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00	
	Analyzed:	Mar-09-20 19:00		Mar-09-20 20:42		Mar-09-20 19:21		Mar-09-20 19:41		Mar-09-20 20:01		Mar-10-20 11:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	52.9	50.1	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.3	50.3
Diesel Range Organics (DRO)		337	49.9	605	50.1	70.4	50.1	<50.1	50.1	<50.2	50.2	63.8	50.3
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.3	50.3
Total GRO-DRO		337	49.9	658	50.1	70.4	50.1	<50.1	50.1	<50.2	50.2	63.8	50.3
Total TPH		337	49.9	658	50.1	70.4	50.1	<50.1	50.1	<50.2	50.2	63.8	50.3

Jessica Kramer
Project Manager

Certificate of Analysis Summary 654990

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Mon Mar-09-20 12:03 pm
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested		654990-007		654990-008		654990-009		654990-010		654990-011		654990-012	
	Field Id:	FS20		FS21		FS22		FS23		FS24		FS25	
	Depth:	0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-06-20 11:51		Mar-06-20 11:53		Mar-06-20 11:56		Mar-06-20 11:58		Mar-06-20 12:00		Mar-06-20 12:58	
BTEX by EPA 8021B	Extracted:	Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00	
	Analyzed:	Mar-09-20 17:38		Mar-09-20 17:58		Mar-09-20 18:19		Mar-09-20 18:39		Mar-09-20 18:59		Mar-09-20 19:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Toluene		<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Ethylbenzene		<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
m,p-Xylenes		<0.00403	0.00403	<0.00402	0.00402	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00402	0.00402
o-Xylene		<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Xylenes, Total		<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Total BTEX		<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Chloride by EPA 300	Extracted:	Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33	
	Analyzed:	Mar-09-20 16:33		Mar-09-20 16:39		Mar-09-20 16:44		Mar-09-20 16:50		Mar-09-20 17:07		Mar-09-20 17:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		8850	101	5680	99.2	8640	99.6	365	9.98	1380	99.2	6560	100
TPH by SW8015 Mod	Extracted:	Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00	
	Analyzed:	Mar-09-20 15:33		Mar-09-20 15:53		Mar-09-20 21:43		Mar-09-20 16:14		Mar-09-20 16:34		Mar-09-20 22:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.3	50.3	<50.2	50.2	<49.8	49.8	<50.0	50.0	<50.2	50.2
Diesel Range Organics (DRO)		54.4	50.1	428	50.3	651	50.2	65.9	49.8	<50.0	50.0	1290	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	155	50.3	67.3	50.2	<49.8	49.8	<50.0	50.0	176	50.2
Total GRO-DRO		54.4	50.1	428	50.3	651	50.2	65.9	49.8	<50.0	50.0	1290	50.2
Total TPH		54.4	50.1	583	50.3	718	50.2	65.9	49.8	<50.0	50.0	1470	50.2

Jessica Kramer
Project Manager

Certificate of Analysis Summary 654990

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Mon Mar-09-20 12:03 pm
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654990-013		654990-014		654990-015		654990-016		654990-017		654990-018	
	Field Id:	FS26		FS27		FS28		FS29		FS30		FS31	
	Depth:	0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-06-20 12:59		Mar-06-20 13:02		Mar-06-20 13:05		Mar-06-20 13:06		Mar-06-20 14:25		Mar-06-20 14:28	
BTEX by EPA 8021B	*Extracted:*	Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00	
	Analyzed:	Mar-09-20 19:40		Mar-09-20 20:01		Mar-09-20 20:21		Mar-09-20 21:22		Mar-09-20 21:43		Mar-09-20 22:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00399	0.00399	<0.00396	0.00396	<0.00404	0.00404	<0.00402	0.00402	<0.00401	0.00401	<0.00397	0.00397
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198
Xylenes, Total		<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198
Chloride by EPA 300	*Extracted:*	Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33	
	Analyzed:	Mar-09-20 17:18		Mar-09-20 17:23		Mar-09-20 17:29		Mar-09-20 17:35		Mar-09-20 17:54		Mar-09-20 18:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5260	100	2370	101	4510	100	6380	100	5620	99.6	5540	99.8
TPH by SW8015 Mod	*Extracted:*	Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00	
	Analyzed:	Mar-09-20 21:22		Mar-09-20 16:55		Mar-09-20 17:19		Mar-09-20 17:39		Mar-09-20 17:59		Mar-09-20 18:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2
Diesel Range Organics (DRO)		200	49.9	<50.1	50.1	66.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2
Total GRO-DRO		200	49.9	<50.1	50.1	66.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2
Total TPH		200	49.9	<50.1	50.1	66.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2

Jessica Kramer
Project Manager

Certificate of Analysis Summary 654990

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Mon Mar-09-20 12:03 pm
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654990-019		654990-020		654990-021		654990-022		654990-023		654990-024	
	Field Id:	FS32		FS33		FS34		FS35		FS37		FS36	
	Depth:	0.3- ft		0.3-0.5 ft		0.3-0.5 ft		0.3- ft		0.3-0.5 ft		0.3-0.5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-06-20 14:31		Mar-06-20 14:33		Mar-06-20 14:35		Mar-06-20 14:37		Mar-06-20 14:51		Mar-06-20 14:49	
BTEX by EPA 8021B	*Extracted:*	Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00		Mar-09-20 14:00	
	Analyzed:	Mar-10-20 00:26		Mar-09-20 22:44		Mar-09-20 23:04		Mar-09-20 23:24		Mar-09-20 23:45		Mar-10-20 00:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00231	0.00231	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00231	0.00231	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		0.00903	0.00231	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		0.0246	0.0185	<0.00403	0.00403	<0.00402	0.00402	<0.00402	0.00402	<0.00400	0.00400	<0.00400	0.00400
o-Xylene		0.0310	0.00926	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Xylenes, Total		0.0556	0.00926	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		0.0646	0.00231	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	*Extracted:*	Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33		Mar-09-20 14:33	
	Analyzed:	Mar-09-20 18:18		Mar-09-20 18:24		Mar-09-20 18:30		Mar-09-20 18:36		Mar-09-20 18:42		Mar-09-20 18:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1440	100	503	100	6210	99.2	3600	99.8	3150	101	4260	101
TPH by SW8015 Mod	*Extracted:*	Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00		Mar-09-20 13:00	
	Analyzed:	Mar-09-20 19:00		Mar-09-20 19:21		Mar-09-20 19:41		Mar-09-20 20:01		Mar-09-20 20:21		Mar-09-20 20:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.3	50.3	<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.3	50.3
Diesel Range Organics (DRO)		292	50.0	<50.3	50.3	<49.8	49.8	<50.3	50.3	<49.9	49.9	91.1	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.3	50.3	<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.3	50.3
Total GRO-DRO		292	50.0	<50.3	50.3	<49.8	49.8	<50.3	50.3	<49.9	49.9	91.1	50.3
Total TPH		292	50.0	<50.3	50.3	<49.8	49.8	<50.3	50.3	<49.9	49.9	91.1	50.3

Jessica Kramer
Project Manager

Certificate of Analysis Summary 654990

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820001
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Mon Mar-09-20 12:03 pm
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654990-025		654990-026		654990-027		654990-028					
	Field Id:	FS38		FS39		FS40		FS41					
	Depth:	0.3-0.5 ft		0.3-0.5 ft		0.3-0.5 ft		0.5- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Mar-06-20 14:52		Mar-06-20 14:55		Mar-06-20 14:57		Mar-06-20 15:00					
BTEX by EPA 8021B	***Extracted:***	Mar-09-20 14:00		Mar-09-20 15:30		Mar-09-20 15:30		Mar-09-20 15:30					
	Analyzed:	Mar-09-20 22:23		Mar-10-20 01:18		Mar-10-20 01:38		Mar-10-20 01:58					
	Units/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	<0.00202	0.00202				
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202				
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202				
m,p-Xylenes		<0.00401	0.00401	<0.00403	0.00403	<0.00403	0.00403	<0.00403	0.00403				
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202				
Xylenes, Total		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202				
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202				
Chloride by EPA 300	***Extracted:***	Mar-09-20 14:33		Mar-09-20 16:00		Mar-09-20 16:00		Mar-09-20 16:00					
	Analyzed:	Mar-09-20 18:54		Mar-09-20 19:31		Mar-09-20 19:49		Mar-09-20 19:55					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		4200	99.8	3480 X	101	6260	99.6	3780	99.8				
TPH by SW8015 Mod	***Extracted:***	Mar-09-20 13:00		Mar-09-20 17:00		Mar-09-20 17:00		Mar-09-20 17:00					
	Analyzed:	Mar-09-20 21:02		Mar-10-20 04:08		Mar-10-20 04:08		Mar-10-20 05:09					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.1	50.1	<50.0	50.0	<50.3	50.3				
Diesel Range Organics (DRO)		332	50.0	<50.1	50.1	<50.0	50.0	<50.3	50.3				
Motor Oil Range Hydrocarbons (MRO)		51.5	50.0	<50.1	50.1	<50.0	50.0	<50.3	50.3				
Total GRO-DRO		332	50.0	<50.1	50.1	<50.0	50.0	<50.3	50.3				
Total TPH		384	50.0	<50.1	50.1	<50.0	50.0	<50.3	50.3				

Jessica Kramer
Project Manager

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-001	Date Collected:	03.06.20 11.15	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119025				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**785**	49.9	mg/kg	03.09.20 15.21		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.09.20 19.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**337**	49.9	mg/kg	03.09.20 19.00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.09.20 19.00	U	1
Total GRO-DRO	PHC628	**337**	49.9	mg/kg	03.09.20 19.00		1
Total TPH	PHC635	**337**	49.9	mg/kg	03.09.20 19.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	03.09.20 19.00	
o-Terphenyl	84-15-1	110	%	70-135	03.09.20 19.00	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-001	Date Collected:	03.06.20 11.15	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119020				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.09.20 20.52	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.09.20 20.52	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.09.20 20.52	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	03.09.20 20.52	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.09.20 20.52	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.09.20 20.52	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.09.20 20.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.09.20 20.52	
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.09.20 20.52	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-002	Date Collected:	03.06.20 11.20	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119025				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**132**	49.6	mg/kg	03.09.20 15.26		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**52.9**	50.1	mg/kg	03.09.20 20.42		1
Diesel Range Organics (DRO)	C10C28DRO	**605**	50.1	mg/kg	03.09.20 20.42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.09.20 20.42	U	1
Total GRO-DRO	PHC628	**658**	50.1	mg/kg	03.09.20 20.42		1
Total TPH	PHC635	**658**	50.1	mg/kg	03.09.20 20.42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	03.09.20 20.42	
o-Terphenyl	84-15-1	110	%	70-135	03.09.20 20.42	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-002	Date Collected:	03.06.20 11.20	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119020				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00926	0.00926	mg/kg	03.09.20 22.14	U	1
Toluene	108-88-3	<0.00926	0.00926	mg/kg	03.09.20 22.14	U	1
Ethylbenzene	100-41-4	**0.0468**	0.00926	mg/kg	03.09.20 22.14		1
m,p-Xylenes	179601-23-1	**0.139**	0.0185	mg/kg	03.09.20 22.14		1
o-Xylene	95-47-6	**0.0935**	0.00926	mg/kg	03.09.20 22.14		1
Xylenes, Total	1330-20-7	**0.233**	0.00926	mg/kg	03.09.20 22.14		1
Total BTEX		**0.279**	0.00926	mg/kg	03.09.20 22.14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	03.09.20 22.14	
1,4-Difluorobenzene	540-36-3	102	%	70-130	03.09.20 22.14	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-003	Date Collected:	03.06.20 11.25	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119025				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**182**	50.1	mg/kg	03.09.20 15.32		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.09.20 19.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	**70.4**	50.1	mg/kg	03.09.20 19.21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.09.20 19.21	U	1
Total GRO-DRO	PHC628	**70.4**	50.1	mg/kg	03.09.20 19.21		1
Total TPH	PHC635	**70.4**	50.1	mg/kg	03.09.20 19.21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	03.09.20 19.21	
o-Terphenyl	84-15-1	103	%	70-135	03.09.20 19.21	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-003	Date Collected:	03.06.20 11.25	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119020				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 21.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 21.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 21.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 21.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 21.13	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 21.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 21.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	03.09.20 21.13	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.09.20 21.13	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-004	Date Collected:	03.06.20 11.42	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119025				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3190**	100	mg/kg	03.09.20 15.38		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.09.20 19.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.09.20 19.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.09.20 19.41	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.09.20 19.41	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.09.20 19.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	03.09.20 19.41	
o-Terphenyl	84-15-1	105	%	70-135	03.09.20 19.41	

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RDU 42

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-004	Date Collected:	03.06.20 11.42	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119020				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 21.33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 21.33	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 21.33	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 21.33	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 21.33	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 21.33	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 21.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.09.20 21.33	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.09.20 21.33	

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RDU 42

Sample Id:	**FS18**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-005	Date Collected:	03.06.20 11.48	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119025				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3220**	100	mg/kg	03.09.20 15.43		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.09.20 20.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.09.20 20.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.09.20 20.01	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.09.20 20.01	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.09.20 20.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	03.09.20 20.01	
o-Terphenyl	84-15-1	102	%	70-135	03.09.20 20.01	

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RDU 42

Sample Id:	**FS18**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-005	Date Collected:	03.06.20 11.48	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119020				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 21.54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 21.54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 21.54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 21.54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 21.54	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 21.54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 21.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.09.20 21.54	
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.09.20 21.54	

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RDU 42

Sample Id:	**FS19**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-006	Date Collected:	03.06.20 11.50	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3150**	100	mg/kg	03.09.20 16.17		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.10.20 11.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	**63.8**	50.3	mg/kg	03.10.20 11.53		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.10.20 11.53	U	1
Total GRO-DRO	PHC628	**63.8**	50.3	mg/kg	03.10.20 11.53		1
Total TPH	PHC635	**63.8**	50.3	mg/kg	03.10.20 11.53		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	03.10.20 11.53	
o-Terphenyl	84-15-1	107	%	70-135	03.10.20 11.53	

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RDU 42

Sample Id:	**FS19**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-006	Date Collected:	03.06.20 11.50	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.09.20 15.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.09.20 15.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.09.20 15.43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.09.20 15.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.09.20 15.43	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.09.20 15.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.09.20 15.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	03.09.20 15.43	
4-Bromofluorobenzene	460-00-4	90	%	70-130	03.09.20 15.43	

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RDU 42

Sample Id:	**FS20**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-007	Date Collected:	03.06.20 11.51	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8850**	101	mg/kg	03.09.20 16.33		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.09.20 15.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	**54.4**	50.1	mg/kg	03.09.20 15.33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.09.20 15.33	U	1
Total GRO-DRO	PHC628	**54.4**	50.1	mg/kg	03.09.20 15.33		1
Total TPH	PHC635	**54.4**	50.1	mg/kg	03.09.20 15.33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	03.09.20 15.33	
o-Terphenyl	84-15-1	135	%	70-135	03.09.20 15.33	

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Sample Id:	**FS20**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-007	Date Collected:	03.06.20 11.51	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.09.20 17.38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.09.20 17.38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.09.20 17.38	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.09.20 17.38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.09.20 17.38	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.09.20 17.38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.09.20 17.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	03.09.20 17.38	
1,4-Difluorobenzene	540-36-3	110	%	70-130	03.09.20 17.38	

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Sample Id:	**FS21**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-008	Date Collected:	03.06.20 11.53	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5680**	99.2	mg/kg	03.09.20 16.39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.09.20 15.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	**428**	50.3	mg/kg	03.09.20 15.53		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**155**	50.3	mg/kg	03.09.20 15.53		1
Total GRO-DRO	PHC628	**428**	50.3	mg/kg	03.09.20 15.53		1
Total TPH	PHC635	**583**	50.3	mg/kg	03.09.20 15.53		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	03.09.20 15.53	
o-Terphenyl	84-15-1	122	%	70-135	03.09.20 15.53	

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Sample Id:	**FS21**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-008	Date Collected:	03.06.20 11.53	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 17.58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 17.58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 17.58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 17.58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 17.58	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 17.58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 17.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	79	%	70-130	03.09.20 17.58	
1,4-Difluorobenzene	540-36-3	111	%	70-130	03.09.20 17.58	

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RDU 42

Sample Id:	**FS22**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-009	Date Collected:	03.06.20 11.56	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8640**	99.6	mg/kg	03.09.20 16.44		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.09.20 21.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	**651**	50.2	mg/kg	03.09.20 21.43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**67.3**	50.2	mg/kg	03.09.20 21.43		1
Total GRO-DRO	PHC628	**651**	50.2	mg/kg	03.09.20 21.43		1
Total TPH	PHC635	**718**	50.2	mg/kg	03.09.20 21.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	03.09.20 21.43	
o-Terphenyl	84-15-1	117	%	70-135	03.09.20 21.43	

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Sample Id:	**FS22**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-009	Date Collected:	03.06.20 11.56	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 18.19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 18.19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 18.19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 18.19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 18.19	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 18.19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 18.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.09.20 18.19	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 18.19	

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RDU 42

Sample Id:	**FS23**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-010	Date Collected:	03.06.20 11.58	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**365**	9.98	mg/kg	03.09.20 16.50		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.09.20 16.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	**65.9**	49.8	mg/kg	03.09.20 16.14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.09.20 16.14	U	1
Total GRO-DRO	PHC628	**65.9**	49.8	mg/kg	03.09.20 16.14		1
Total TPH	PHC635	**65.9**	49.8	mg/kg	03.09.20 16.14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	03.09.20 16.14	
o-Terphenyl	84-15-1	131	%	70-135	03.09.20 16.14	

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Sample Id:	**FS23**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-010	Date Collected:	03.06.20 11.58	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.09.20 18.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.09.20 18.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.09.20 18.39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.09.20 18.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.09.20 18.39	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.09.20 18.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.09.20 18.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	03.09.20 18.39	
1,4-Difluorobenzene	540-36-3	111	%	70-130	03.09.20 18.39	

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RDU 42

Sample Id:	**FS24**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-011	Date Collected:	03.06.20 12.00	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1380**	99.2	mg/kg	03.09.20 17.07		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.09.20 16.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.09.20 16.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.09.20 16.34	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.09.20 16.34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.09.20 16.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	03.09.20 16.34	
o-Terphenyl	84-15-1	114	%	70-135	03.09.20 16.34	

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RDU 42

Sample Id:	**FS24**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-011	Date Collected:	03.06.20 12.00	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.09.20 18.59	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.09.20 18.59	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.09.20 18.59	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.09.20 18.59	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.09.20 18.59	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	03.09.20 18.59	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.09.20 18.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 18.59	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.09.20 18.59	

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RDU 42

Sample Id:	**FS25**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-012	Date Collected:	03.06.20 12.58	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6560**	100	mg/kg	03.09.20 17.12		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.09.20 22.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1290**	50.2	mg/kg	03.09.20 22.03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**176**	50.2	mg/kg	03.09.20 22.03		1
Total GRO-DRO	PHC628	**1290**	50.2	mg/kg	03.09.20 22.03		1
Total TPH	PHC635	**1470**	50.2	mg/kg	03.09.20 22.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	03.09.20 22.03	
o-Terphenyl	84-15-1	134	%	70-135	03.09.20 22.03	

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RDU 42

Sample Id:	**FS25**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-012	Date Collected:	03.06.20 12.58	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 19.20	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 19.20	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 19.20	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 19.20	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 19.20	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 19.20	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	03.09.20 19.20	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.09.20 19.20	

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RDU 42

Sample Id:	**FS26**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-013	Date Collected:	03.06.20 12.59	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5260**	100	mg/kg	03.09.20 17.18		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.09.20 21.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	**200**	49.9	mg/kg	03.09.20 21.22		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.09.20 21.22	U	1
Total GRO-DRO	PHC628	**200**	49.9	mg/kg	03.09.20 21.22		1
Total TPH	PHC635	**200**	49.9	mg/kg	03.09.20 21.22		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	03.09.20 21.22	
o-Terphenyl	84-15-1	130	%	70-135	03.09.20 21.22	

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RDU 42

Sample Id:	**FS26**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-013	Date Collected:	03.06.20 12.59	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.09.20 19.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.09.20 19.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.09.20 19.40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.09.20 19.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.09.20 19.40	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.09.20 19.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.09.20 19.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.09.20 19.40	
1,4-Difluorobenzene	540-36-3	110	%	70-130	03.09.20 19.40	

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RDU 42

Sample Id:	**FS27**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-014	Date Collected:	03.06.20 13.02	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2370**	101	mg/kg	03.09.20 17.23		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.09.20 16.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.09.20 16.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.09.20 16.55	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.09.20 16.55	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.09.20 16.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	03.09.20 16.55	
o-Terphenyl	84-15-1	127	%	70-135	03.09.20 16.55	

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RDU 42

Sample Id:	**FS27**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-014	Date Collected:	03.06.20 13.02	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.09.20 20.01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.09.20 20.01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.09.20 20.01	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.09.20 20.01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.09.20 20.01	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	03.09.20 20.01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.09.20 20.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	03.09.20 20.01	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 20.01	

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RDU 42

Sample Id:	**FS28**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-015	Date Collected:	03.06.20 13.05	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4510**	100	mg/kg	03.09.20 17.29		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.09.20 17.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	**66.2**	50.2	mg/kg	03.09.20 17.19		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.09.20 17.19	U	1
Total GRO-DRO	PHC628	**66.2**	50.2	mg/kg	03.09.20 17.19		1
Total TPH	PHC635	**66.2**	50.2	mg/kg	03.09.20 17.19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.09.20 17.19	
o-Terphenyl	84-15-1	117	%	70-135	03.09.20 17.19	

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RDU 42

Sample Id:	**FS28**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-015	Date Collected:	03.06.20 13.05	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.09.20 20.21	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.09.20 20.21	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.09.20 20.21	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	03.09.20 20.21	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.09.20 20.21	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.09.20 20.21	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.09.20 20.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.09.20 20.21	
4-Bromofluorobenzene	460-00-4	96	%	70-130	03.09.20 20.21	

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RDU 42

Sample Id:	**FS29**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-016	Date Collected:	03.06.20 13.06	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6380**	100	mg/kg	03.09.20 17.35		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.09.20 17.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.09.20 17.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.09.20 17.39	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.09.20 17.39	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.09.20 17.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	03.09.20 17.39	
o-Terphenyl	84-15-1	118	%	70-135	03.09.20 17.39	

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RDU 42

Sample Id:	**FS29**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-016	Date Collected:	03.06.20 13.06	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 21.22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 21.22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 21.22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 21.22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 21.22	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 21.22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 21.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.09.20 21.22	
4-Bromofluorobenzene	460-00-4	90	%	70-130	03.09.20 21.22	

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RDU 42

Sample Id:	**FS30**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-017	Date Collected:	03.06.20 14.25	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5620**	99.6	mg/kg	03.09.20 17.54		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.09.20 17.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.09.20 17.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.09.20 17.59	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.09.20 17.59	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.09.20 17.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	03.09.20 17.59	
o-Terphenyl	84-15-1	135	%	70-135	03.09.20 17.59	

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Sample Id:	**FS30**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-017	Date Collected:	03.06.20 14.25	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.09.20 21.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.09.20 21.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.09.20 21.43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.09.20 21.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.09.20 21.43	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.09.20 21.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.09.20 21.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 21.43	
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.09.20 21.43	

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RDU 42

Sample Id:	**FS31**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-018	Date Collected:	03.06.20 14.28	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5540**	99.8	mg/kg	03.09.20 18.00		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.09.20 18.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.09.20 18.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.09.20 18.20	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.09.20 18.20	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.09.20 18.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	03.09.20 18.20	
o-Terphenyl	84-15-1	107	%	70-135	03.09.20 18.20	

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LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS31**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-018	Date Collected:	03.06.20 14.28	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.09.20 22.03	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.09.20 22.03	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.09.20 22.03	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.09.20 22.03	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.09.20 22.03	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	03.09.20 22.03	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.09.20 22.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 22.03	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.09.20 22.03	

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RDU 42

Sample Id:	**FS32**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-019	Date Collected:	03.06.20 14.31	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1440**	100	mg/kg	03.09.20 18.18		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.09.20 19.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**292**	50.0	mg/kg	03.09.20 19.00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.09.20 19.00	U	1
Total GRO-DRO	PHC628	**292**	50.0	mg/kg	03.09.20 19.00		1
Total TPH	PHC635	**292**	50.0	mg/kg	03.09.20 19.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	03.09.20 19.00	
o-Terphenyl	84-15-1	122	%	70-135	03.09.20 19.00	

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RDU 42

Sample Id:	**FS32**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-019	Date Collected:	03.06.20 14.31	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00231	0.00231	mg/kg	03.10.20 00.26	U	1
Toluene	108-88-3	<0.00231	0.00231	mg/kg	03.10.20 00.26	U	1
Ethylbenzene	100-41-4	**0.00903**	0.00231	mg/kg	03.10.20 00.26		1
m,p-Xylenes	179601-23-1	**0.0246**	0.0185	mg/kg	03.10.20 00.26		1
o-Xylene	95-47-6	**0.0310**	0.00926	mg/kg	03.10.20 00.26		1
Xylenes, Total	1330-20-7	**0.0556**	0.00926	mg/kg	03.10.20 00.26		1
Total BTEX		**0.0646**	0.00231	mg/kg	03.10.20 00.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 00.26	
4-Bromofluorobenzene	460-00-4	88	%	70-130	03.10.20 00.26	

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RDU 42

Sample Id:	**FS33**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-020	Date Collected:	03.06.20 14.33	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**503**	100	mg/kg	03.09.20 18.24		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.09.20 19.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.09.20 19.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.09.20 19.21	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.09.20 19.21	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.09.20 19.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	03.09.20 19.21	
o-Terphenyl	84-15-1	126	%	70-135	03.09.20 19.21	

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Sample Id:	**FS33**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-020	Date Collected:	03.06.20 14.33	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.09.20 22.44	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.09.20 22.44	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.09.20 22.44	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.09.20 22.44	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.09.20 22.44	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.09.20 22.44	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.09.20 22.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	03.09.20 22.44	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 22.44	

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RDU 42

Sample Id:	**FS34**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-021	Date Collected:	03.06.20 14.35	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6210**	99.2	mg/kg	03.09.20 18.30		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.09.20 19.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.09.20 19.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.09.20 19.41	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	03.09.20 19.41	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.09.20 19.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	03.09.20 19.41	
o-Terphenyl	84-15-1	118	%	70-135	03.09.20 19.41	

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RDU 42

Sample Id:	**FS34**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-021	Date Collected:	03.06.20 14.35	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 23.04	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 23.04	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 23.04	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 23.04	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 23.04	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 23.04	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 23.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.09.20 23.04	
1,4-Difluorobenzene	540-36-3	113	%	70-130	03.09.20 23.04	

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RDU 42

Sample Id:	**FS35**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-022	Date Collected:	03.06.20 14.37	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3600**	99.8	mg/kg	03.09.20 18.36		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.09.20 20.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.09.20 20.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.09.20 20.01	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.09.20 20.01	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.09.20 20.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	03.09.20 20.01	
o-Terphenyl	84-15-1	115	%	70-135	03.09.20 20.01	

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RDU 42

Sample Id:	**FS35**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-022	Date Collected:	03.06.20 14.37	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.09.20 23.24	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.09.20 23.24	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.09.20 23.24	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.09.20 23.24	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.09.20 23.24	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	03.09.20 23.24	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.09.20 23.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.09.20 23.24	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 23.24	

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RDU 42

Sample Id:	**FS37**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-023	Date Collected:	03.06.20 14.51	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3150**	101	mg/kg	03.09.20 18.42		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.09.20 20.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.09.20 20.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.09.20 20.21	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.09.20 20.21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.09.20 20.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	03.09.20 20.21	
o-Terphenyl	84-15-1	130	%	70-135	03.09.20 20.21	

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Sample Id:	**FS37**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-023	Date Collected:	03.06.20 14.51	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.09.20 23.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.09.20 23.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.09.20 23.45	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.09.20 23.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.09.20 23.45	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.09.20 23.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.09.20 23.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	03.09.20 23.45	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 23.45	

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RDU 42

Sample Id:	**FS36**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-024	Date Collected:	03.06.20 14.49	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4260**	101	mg/kg	03.09.20 18.48		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.09.20 20.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	**91.1**	50.3	mg/kg	03.09.20 20.42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.09.20 20.42	U	1
Total GRO-DRO	PHC628	**91.1**	50.3	mg/kg	03.09.20 20.42		1
Total TPH	PHC635	**91.1**	50.3	mg/kg	03.09.20 20.42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.09.20 20.42	
o-Terphenyl	84-15-1	118	%	70-135	03.09.20 20.42	

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Sample Id:	**FS36**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-024	Date Collected:	03.06.20 14.49	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.10.20 00.05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.10.20 00.05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.10.20 00.05	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.10.20 00.05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.10.20 00.05	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.10.20 00.05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.10.20 00.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	03.10.20 00.05	
1,4-Difluorobenzene	540-36-3	111	%	70-130	03.10.20 00.05	

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RDU 42

Sample Id:	**FS38**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-025	Date Collected:	03.06.20 14.52	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.33	Basis:	Wet Weight
Seq Number:	3119027				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4200**	99.8	mg/kg	03.09.20 18.54		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 13.00	Basis:	Wet Weight
Seq Number:	3119046				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.09.20 21.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	**332**	50.0	mg/kg	03.09.20 21.02		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**51.5**	50.0	mg/kg	03.09.20 21.02		1
Total GRO-DRO	PHC628	**332**	50.0	mg/kg	03.09.20 21.02		1
Total TPH	PHC635	**384**	50.0	mg/kg	03.09.20 21.02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	03.09.20 21.02	
o-Terphenyl	84-15-1	121	%	70-135	03.09.20 21.02	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS38**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-025	Date Collected:	03.06.20 14.52	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 14.00	Basis:	Wet Weight
Seq Number:	3119021				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.09.20 22.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.09.20 22.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.09.20 22.23	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.09.20 22.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.09.20 22.23	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	03.09.20 22.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.09.20 22.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.09.20 22.23	
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.09.20 22.23	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS39**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-026	Date Collected:	03.06.20 14.55	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119022				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3480**	101	mg/kg	03.09.20 19.31	X	10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 17.00	Basis:	Wet Weight
Seq Number:	3119055				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.10.20 04.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.10.20 04.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.10.20 04.08	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.10.20 04.08	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.10.20 04.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	03.10.20 04.08	
o-Terphenyl	84-15-1	119	%	70-135	03.10.20 04.08	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS39**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-026	Date Collected:	03.06.20 14.55	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 15.30	Basis:	Wet Weight
Seq Number:	3119031				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.10.20 01.18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.10.20 01.18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.10.20 01.18	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.10.20 01.18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.10.20 01.18	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.10.20 01.18	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.10.20 01.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 01.18	
4-Bromofluorobenzene	460-00-4	96	%	70-130	03.10.20 01.18	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS40**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-027	Date Collected:	03.06.20 14.57	Sample Depth:	0.3 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119022				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6260**	99.6	mg/kg	03.09.20 19.49		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 17.00	Basis:	Wet Weight
Seq Number:	3119062				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.20 04.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.20 04.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.20 04.08	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.10.20 04.08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.20 04.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	03.10.20 04.08	
o-Terphenyl	84-15-1	128	%	70-135	03.10.20 04.08	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS40**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-027	Date Collected:	03.06.20 14.57	Sample Depth:	0.3 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 15.30	Basis:	Wet Weight
Seq Number:	3119031				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.10.20 01.38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.10.20 01.38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.10.20 01.38	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.10.20 01.38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.10.20 01.38	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.10.20 01.38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.10.20 01.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.10.20 01.38	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 01.38	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS41**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-028	Date Collected:	03.06.20 15.00	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 16.00	Basis:	Wet Weight
Seq Number:	3119022				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3780**	99.8	mg/kg	03.09.20 19.55		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.09.20 17.00	Basis:	Wet Weight
Seq Number:	3119055				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.10.20 05.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.10.20 05.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.10.20 05.09	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.10.20 05.09	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.10.20 05.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.10.20 05.09	
o-Terphenyl	84-15-1	114	%	70-135	03.10.20 05.09	

Certificate of Analytical Results 654990

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS41**	Matrix:	Soil	Date Received:	03.09.20 12.03
Lab Sample Id:	654990-028	Date Collected:	03.06.20 15.00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.09.20 15.30	Basis:	Wet Weight
Seq Number:	3119031				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.10.20 01.58	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.10.20 01.58	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.10.20 01.58	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.10.20 01.58	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.10.20 01.58	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.10.20 01.58	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.10.20 01.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 01.58	
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.10.20 01.58	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 654990

LT Environmental, Inc.

RDU 42

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119025 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698410-1-BLK — LCS Sample Id: 7698410-1-BKS — LCSD Sample Id: 7698410-1-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	265	106	264	106	90-110	0	20	mg/kg	03.09.20 12:49	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119027 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698411-1-BLK — LCS Sample Id: 7698411-1-BKS — LCSD Sample Id: 7698411-1-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	263	105	90-110	0	20	mg/kg	03.09.20 16:05	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119022 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698414-1-BLK — LCS Sample Id: 7698414-1-BKS — LCSD Sample Id: 7698414-1-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	258	103	263	105	90-110	2	20	mg/kg	03.09.20 19:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119025 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654956-001 — MS Sample Id: 654956-001 S — MSD Sample Id: 654956-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	394	200	603	105	602	104	90-110	0	20	mg/kg	03.09.20 13:06	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119025 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654956-011 — MS Sample Id: 654956-011 S — MSD Sample Id: 654956-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	898	200	1110	106	1110	105	90-110	0	20	mg/kg	03.09.20 14:30	

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

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

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

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

QC Summary 654990

LT Environmental, Inc.

RDU 42

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119027 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654990-006 — MS Sample Id: 654990-006 S — MSD Sample Id: 654990-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3150	250	3410	104	3420	108	90-110	0	20	mg/kg	03.09.20 16:22	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119027 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654990-016 — MS Sample Id: 654990-016 S — MSD Sample Id: 654990-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6380	201	6580	100	6600	110	90-110	0	20	mg/kg	03.09.20 17:41	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119022 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654990-026 — MS Sample Id: 654990-026 S — MSD Sample Id: 654990-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3480	248	3760	113	3770	117	90-110	0	20	mg/kg	03.09.20 19:37	X

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119037 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698444-1-BLK — LCS Sample Id: 7698444-1-BKS — LCSD Sample Id: 7698444-1-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	920	92	953	95	70-135	4	35	mg/kg	03.09.20 13:25	
Diesel Range Organics (DRO)	<50.0	1000	884	88	912	91	70-135	3	35	mg/kg	03.09.20 13:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		105		102		70-135	%	03.09.20 13:25
o-Terphenyl	104		108		104		70-135	%	03.09.20 13:25

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

QC Summary 654990

LT Environmental, Inc.

RDU 42

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119046 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698453-1-BLK — LCS Sample Id: 7698453-1-BKS — LCSD Sample Id: 7698453-1-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	914	91	929	93	70-135	2	35	mg/kg	03.09.20 13:25	
Diesel Range Organics (DRO)	<50.0	1000	904	90	891	89	70-135	1	35	mg/kg	03.09.20 13:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		119		114		70-135	%	03.09.20 13:25
o-Terphenyl	102		114		104		70-135	%	03.09.20 13:25

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119055 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698462-1-BLK — LCS Sample Id: 7698462-1-BKS — LCSD Sample Id: 7698462-1-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	916	92	927	93	70-135	1	35	mg/kg	03.10.20 09:41	
Diesel Range Organics (DRO)	<50.0	1000	916	92	914	91	70-135	0	35	mg/kg	03.10.20 09:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		107		100		70-135	%	03.10.20 09:41
o-Terphenyl	106		111		104		70-135	%	03.10.20 09:41

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119062 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698464-1-BLK — LCS Sample Id: 7698464-1-BKS — LCSD Sample Id: 7698464-1-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	931	93	924	92	70-135	1	35	mg/kg	03.10.20 09:41	
Diesel Range Organics (DRO)	<50.0	1000	971	97	944	94	70-135	3	35	mg/kg	03.10.20 09:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	86		108		100		70-135	%	03.10.20 09:41
o-Terphenyl	98		115		106		70-135	%	03.10.20 09:41

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119037 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698444-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.09.20 13:05	

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

QC Summary 654990

LT Environmental, Inc.

RDU 42

Analytical Method: TPH by SW8015 Mod
Seq Number: 3119046
Matrix: Solid
MB Sample Id: 7698453-1-BLK
Prep Method: SW8015P
Date Prep: 03.09.20

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.09.20 13:05	

Analytical Method: TPH by SW8015 Mod
Seq Number: 3119055
Matrix: Solid
MB Sample Id: 7698462-1-BLK
Prep Method: SW8015P
Date Prep: 03.09.20

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.10.20 09:21	

Analytical Method: TPH by SW8015 Mod
Seq Number: 3119062
Matrix: Solid
MB Sample Id: 7698464-1-BLK
Prep Method: SW8015P
Date Prep: 03.09.20

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.10.20 03:48	

Analytical Method: TPH by SW8015 Mod
Seq Number: 3119037
Parent Sample Id: 654956-001
Matrix: Soil
MS Sample Id: 654956-001 S
Prep Method: SW8015P
Date Prep: 03.09.20
MSD Sample Id: 654956-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	995	978	98	988	99	70-135	1	35	mg/kg	03.09.20 14:53	
Diesel Range Organics (DRO)	<49.8	995	949	95	993	100	70-135	5	35	mg/kg	03.09.20 14:53	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		117		70-135	%	03.09.20 14:53
o-Terphenyl	115		119		70-135	%	03.09.20 14:53

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

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

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

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

QC Summary 654990

LT Environmental, Inc.

RDU 42

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119046 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654990-006 — MS Sample Id: 654990-006 S — MSD Sample Id: 654990-006 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)	<50.3	1010	986	98	1140	114	70-135	14	35	mg/kg	03.09.20 14:53	
Diesel Range Organics (DRO)	63.8	1010	1020	95	1040	98	70-135	2	35	mg/kg	03.09.20 14:53	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		130		70-135	%	03.09.20 14:53
o-Terphenyl	126		121		70-135	%	03.09.20 14:53

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119055 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654990-026 — MS Sample Id: 654990-026 S — MSD Sample Id: 654990-026 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)	<49.9	997	962	96	984	98	70-135	2	35	mg/kg	03.10.20 04:28	
Diesel Range Organics (DRO)	<49.9	997	939	94	956	96	70-135	2	35	mg/kg	03.10.20 04:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		119		70-135	%	03.10.20 04:28
o-Terphenyl	125		125		70-135	%	03.10.20 04:28

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119062 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654990-027 — MS Sample Id: 654990-027 S — MSD Sample Id: 654990-027 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	993	99	1120	112	70-135	12	35	mg/kg	03.10.20 04:28	
Diesel Range Organics (DRO)	<50.0	1000	1000	100	969	97	70-135	3	35	mg/kg	03.10.20 04:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		130		70-135	%	03.10.20 04:28
o-Terphenyl	131		134		70-135	%	03.10.20 04:28

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

QC Summary 654990

LT Environmental, Inc.

RDU 42

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3119020 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698415-1-BLK — LCS Sample Id: 7698415-1-BKS — LCSD Sample Id: 7698415-1-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	0.111	111	0.109	109	70-130	2	35	mg/kg	03.09.20 13:24	
Toluene	<0.00200	0.100	0.107	107	0.106	106	70-130	1	35	mg/kg	03.09.20 13:24	
Ethylbenzene	<0.00200	0.100	0.102	102	0.101	101	71-129	1	35	mg/kg	03.09.20 13:24	
m,p-Xylenes	<0.00400	0.200	0.211	106	0.210	105	70-135	0	35	mg/kg	03.09.20 13:24	
o-Xylene	<0.00200	0.100	0.106	106	0.105	105	71-133	1	35	mg/kg	03.09.20 13:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		108		108		70-130	%	03.09.20 13:24
4-Bromofluorobenzene	94		94		94		70-130	%	03.09.20 13:24

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3119021 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698416-1-BLK — LCS Sample Id: 7698416-1-BKS — LCSD Sample Id: 7698416-1-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	0.124	124	0.119	119	70-130	4	35	mg/kg	03.09.20 15:02	
Toluene	<0.00200	0.100	0.114	114	0.109	109	70-130	4	35	mg/kg	03.09.20 15:02	
Ethylbenzene	<0.00200	0.100	0.108	108	0.104	104	71-129	4	35	mg/kg	03.09.20 15:02	
m,p-Xylenes	<0.00400	0.200	0.211	106	0.202	101	70-135	4	35	mg/kg	03.09.20 15:02	
o-Xylene	<0.00200	0.100	0.107	107	0.102	102	71-133	5	35	mg/kg	03.09.20 15:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		110		110		70-130	%	03.09.20 15:02
4-Bromofluorobenzene	91		87		87		70-130	%	03.09.20 15:02

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3119031 — Matrix: Solid — Date Prep: 03.09.20
MB Sample Id: 7698418-1-BLK — LCS Sample Id: 7698418-1-BKS — LCSD Sample Id: 7698418-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.108	108	70-130	1	35	mg/kg	03.09.20 23:36	
Toluene	<0.00200	0.100	0.102	102	0.104	104	70-130	2	35	mg/kg	03.09.20 23:36	
Ethylbenzene	<0.00200	0.100	0.0961	96	0.0989	99	71-129	3	35	mg/kg	03.09.20 23:36	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.204	102	70-135	4	35	mg/kg	03.09.20 23:36	
o-Xylene	<0.00200	0.100	0.0995	100	0.103	103	71-133	3	35	mg/kg	03.09.20 23:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		107		108		70-130	%	03.09.20 23:36
4-Bromofluorobenzene	94		93		94		70-130	%	03.09.20 23:36

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

QC Summary 654990

LT Environmental, Inc.

RDU 42

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3119020 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654956-001 — MS Sample Id: 654956-001 S — MSD Sample Id: 654956-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.110	111	0.106	107	70-130	4	35	mg/kg	03.09.20 14:05	
Toluene	<0.00198	0.0990	0.106	107	0.103	104	70-130	3	35	mg/kg	03.09.20 14:05	
Ethylbenzene	<0.00198	0.0990	0.100	101	0.0975	98	71-129	3	35	mg/kg	03.09.20 14:05	
m,p-Xylenes	<0.00396	0.198	0.206	104	0.201	101	70-135	2	35	mg/kg	03.09.20 14:05	
o-Xylene	<0.00198	0.0990	0.102	103	0.0996	100	71-133	2	35	mg/kg	03.09.20 14:05	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		107		70-130	%	03.09.20 14:05
4-Bromofluorobenzene	92		93		70-130	%	03.09.20 14:05

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3119021 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654990-006 — MS Sample Id: 654990-006 S — MSD Sample Id: 654990-006 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	0.112	112	0.104	104	70-130	7	35	mg/kg	03.09.20 16:04	
Toluene	<0.00200	0.100	0.100	100	0.0922	92	70-130	8	35	mg/kg	03.09.20 16:04	
Ethylbenzene	<0.00200	0.100	0.0917	92	0.0835	84	71-129	9	35	mg/kg	03.09.20 16:04	
m,p-Xylenes	<0.00400	0.200	0.177	89	0.161	81	70-135	9	35	mg/kg	03.09.20 16:04	
o-Xylene	<0.00200	0.100	0.0882	88	0.0803	80	71-133	9	35	mg/kg	03.09.20 16:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		110		70-130	%	03.09.20 16:04
4-Bromofluorobenzene	85		85		70-130	%	03.09.20 16:04

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3119031 — Matrix: Soil — Date Prep: 03.09.20
Parent Sample Id: 654990-026 — MS Sample Id: 654990-026 S — MSD Sample Id: 654990-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0852	86	0.0958	96	70-130	12	35	mg/kg	03.10.20 00:16	
Toluene	<0.00199	0.0994	0.0807	81	0.0905	91	70-130	11	35	mg/kg	03.10.20 00:16	
Ethylbenzene	<0.00199	0.0994	0.0747	75	0.0835	84	71-129	11	35	mg/kg	03.10.20 00:16	
m,p-Xylenes	<0.00398	0.199	0.152	76	0.169	85	70-135	11	35	mg/kg	03.10.20 00:16	
o-Xylene	<0.00199	0.0994	0.0762	77	0.0852	85	71-133	11	35	mg/kg	03.10.20 00:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		107		70-130	%	03.10.20 00:16
4-Bromofluorobenzene	96		93		70-130	%	03.10.20 00:16

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

Chain of Custody

XENCO LABORATORIES

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

Work Order No: 654990

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Project Manager:	Chris McKisson	Bill to: (if different)	→
Company Name:	LT Environmental	Company Name:	→
Address:	820 Megan Ave, Unit B	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	(970) 285-9985	Email:	cmckisson@ltenv.com & abyers@ltenv.com

Work Order Comments

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

Project Name:	RDU 42	Turn Around	
Project Number:	03482000 1	Routine	☒
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	1-6-20 Spill Date	Quote #:	

SAMPLE RECEIPT

Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.4	Thermometer ID	T-NM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	29

ANALYSIS REQUEST

Preservative Codes

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

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

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
	FS14	S	3/6/20	1115	0.5'	1				
	FS15	↓	↓	1120	0.3-0.5'	1				
	FS16			1125	0.3-0.5'	1				
	FS17			1142	0.3'	1				
	FS18			1148	0.3'	1				
	FS19			1150	0.3'	1				
	FS20			1151	0.3'	1				
	FS21			1153	0.3'	1				
	FS22			1156	0.3'	1				
	FS23	↓	↓	1158	0.3'	1				

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers		3/9/20 12:03	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
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Work Order No: 654990

Project Manager:	Chris McKisson	Bill to: (if different)	
Company Name:	LT Environmental	Company Name:	
Address:	990 Megan Ave, Unit B	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	(970) 285-9985	Email:	cmckisson@ltenv.com dabyers@ltenv.com

Work Order Comments

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

Project Name:	RDU 42	Turn Around	
Project Number:	034820001	Routine	☒
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	1-6-20 Spill Date	Quote #:	

SAMPLE RECEIPT

Temperature (°C):	0.6	Temp Blank: Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID	see IR
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	~~Yes~~ No N/A	Total Containers:	

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
	FS24	S	3/6/20	1200	0.3'	1	X	X	X
	FS25			1258		1			
	FS26			1259		1			
	FS27			1302		1			
	FS28			1305		1			
	FS29			1306		1			
	FS30			1425		1			
	FS31			1428		1			
	FS32			1431		1			
	FS33			1433	0.3-0.5'	1			

ANALYSIS REQUEST

Preservative Codes

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

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

Sample Comments

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

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

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

1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers		3/9/20 12:03	2		
			4		
			6		

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
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Work Order No: 654990

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Project Manager:	Chris McKisson	Bill to: (if different)	
Company Name:	LT Environmental	Company Name:	
Address:	820 Megan Ave, Unit B	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	(970) 285-9985	Email:	cmckisson@ltenv.com & abyers@ltenv.com

Work Order Comments

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

Project Name:	RDU 42	Turn Around	
Project Number:	03182000I	Routine	☒
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	1-6-20 Spill Date	Quote #:	

SAMPLE RECEIPT			
Temperature (°C):	0.1	Temp Blank: Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID	50-Ray
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Preservative Codes

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

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

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
	FS34	S	3/6/20	1435	0.3-0.5'	1				
	FS35			1437	0.3'	1				
	~~FS36~~ FS37			1451	0.3-0.5'	1				
	~~FS37~~ FS36			1449	0.3-0.5'	1				
	FS38			1452	0.3-0.5'	1				
	FS39			1455	0.3-0.5'	1				
	FS40			1457	0.3-0.5'	1				
	FS41	↓	↓	1500	0.5-	1				

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

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

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

1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers		3/9/20 12:03	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.09.2020 12.03.00 PM

Work Order #: 654990

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)?	.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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.09.2020

Checklist reviewed by: Jessica Kramer Date: 03.09.2020

Jessica Kramer

Analytical Report 656197

for

LT Environmental, Inc.

Project Manager: Chris McKisson

RDU 42

034820034

20-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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

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

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

20-MAR-20

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

Reference: XENCO Report No(s): **656197**
RDU 42
Project Address:

Chris McKisson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 656197. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 656197 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

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

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

Sample Cross Reference 656197

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS25A	S	03-18-20 13:20	0.5 ft	656197-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: RDU 42

Project ID: *034820034*
Work Order Number(s): *656197*

Report Date: *20-MAR-20*
Date Received: *03/19/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3120331 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 656197

LT Environmental, Inc., Arvada, CO

Project Name: RDU 42

Project Id: 034820034
Contact: Chris McKisson
Project Location:

Date Received in Lab: Thu Mar-19-20 08:15 am
Report Date: 20-MAR-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	656197-001					
	Field Id:	FS25A					
	Depth:	0.5- ft					
	Matrix:	SOIL					
	Sampled:	Mar-18-20 13:20					
BTEX by EPA 8021B	***Extracted:***	Mar-19-20 11:34					
	Analyzed:	Mar-19-20 14:43					
	Units/RL:	mg/kg RL					
Benzene		<0.00202 0.00202					
Toluene		<0.00202 0.00202					
Ethylbenzene		<0.00202 0.00202					
m,p-Xylenes		<0.00404 0.00404					
o-Xylene		<0.00202 0.00202					
Xylenes, Total		<0.00202 0.00202					
Total BTEX		<0.00202 0.00202					
Chloride by EPA 300	***Extracted:***	Mar-19-20 12:16					
	Analyzed:	Mar-19-20 12:50					
	Units/RL:	mg/kg RL					
Chloride		4620 50.5					
TPH by SW8015 Mod	***Extracted:***	** ** ** **					
	Analyzed:	Mar-19-20 15:33					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2					
Diesel Range Organics (DRO)		<50.2 50.2					
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2					
Total GRO-DRO		<50.2 50.2					
Total TPH		<50.2 50.2					

Jessica Kramer
Project Manager

Certificate of Analytical Results 656197

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS25A**	Matrix:	Soil	Date Received:	03.19.20 08.15
Lab Sample Id:	656197-001	Date Collected:	03.18.20 13.20	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.19.20 12.16	Basis:	Wet Weight
Seq Number:	3120336				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4620**	50.5	mg/kg	03.19.20 12.50		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.15.20 15.00	Basis:	Wet Weight
Seq Number:	3120393				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.19.20 15.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.19.20 15.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.19.20 15.33	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.19.20 15.33	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.19.20 15.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	03.19.20 15.33	
o-Terphenyl	84-15-1	105	%	70-135	03.19.20 15.33	

Certificate of Analytical Results 656197

LT Environmental, Inc., Arvada, CO

RDU 42

Sample Id:	**FS25A**	Matrix:	Soil	Date Received:	03.19.20 08.15
Lab Sample Id:	656197-001	Date Collected:	03.18.20 13.20	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.19.20 11.34	Basis:	Wet Weight
Seq Number:	3120331				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.19.20 14.43	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.19.20 14.43	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.19.20 14.43	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	03.19.20 14.43	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.19.20 14.43	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	03.19.20 14.43	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.19.20 14.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.19.20 14.43	
4-Bromofluorobenzene	460-00-4	94	%	70-130	03.19.20 14.43	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 656197

LT Environmental, Inc.

RDU 42

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120336 — Matrix: Solid — Date Prep: 03.19.20
MB Sample Id: 7699267-1-BLK — LCS Sample Id: 7699267-1-BKS — LCSD Sample Id: 7699267-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	260	104	262	105	90-110	1	20	mg/kg	03.19.20 12:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120336 — Matrix: Soil — Date Prep: 03.19.20
Parent Sample Id: 656193-001 — MS Sample Id: 656193-001 S — MSD Sample Id: 656193-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	312	200	527	108	528	108	90-110	0	20	mg/kg	03.19.20 12:30	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120336 — Matrix: Solid — Date Prep: 03.19.20
Parent Sample Id: 656277-004 — MS Sample Id: 656277-004 S — MSD Sample Id: 656277-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	535	200	752	109	745	106	90-110	1	20	mg/kg	03.19.20 16:13	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120393 — Matrix: Solid — Date Prep: 03.15.20
MB Sample Id: 7699383-1-BLK — LCS Sample Id: 7699383-1-BKS — LCSD Sample Id: 7699383-1-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	911	91	946	95	70-135	4	35	mg/kg	03.19.20 14:52	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1020	102	70-135	1	35	mg/kg	03.19.20 14:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		115		119		70-135	%	03.19.20 14:52
o-Terphenyl	99		118		113		70-135	%	03.19.20 14:52

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120393 — Matrix: Solid — Date Prep: 03.15.20
MB Sample Id: 7699383-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.19.20 14:32	

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

QC Summary 656197

LT Environmental, Inc.

RDU 42

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3120393 | Matrix: Soil | Date Prep: 03.15.20
Parent Sample Id: 656197-001 | MS Sample Id: 656197-001 S | MSD Sample Id: 656197-001 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	999	906	91	924	92	70-135	2	35	mg/kg	03.19.20 15:53	
Diesel Range Organics (DRO)	<50.0	999	984	98	1020	102	70-135	4	35	mg/kg	03.19.20 15:53	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		117		70-135	%	03.19.20 15:53
o-Terphenyl	114		117		70-135	%	03.19.20 15:53

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3120331 | Matrix: Solid | Date Prep: 03.19.20
MB Sample Id: 7699269-1-BLK | LCS Sample Id: 7699269-1-BKS | LCSD Sample Id: 7699269-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.108	108	0.104	104	70-130	4	35	mg/kg	03.19.20 12:41	
Toluene	<0.00200	0.100	0.104	104	0.0995	100	70-130	4	35	mg/kg	03.19.20 12:41	
Ethylbenzene	<0.00200	0.100	0.100	100	0.0950	95	71-129	5	35	mg/kg	03.19.20 12:41	
m,p-Xylenes	<0.00400	0.200	0.207	104	0.197	99	70-135	5	35	mg/kg	03.19.20 12:41	
o-Xylene	<0.00200	0.100	0.103	103	0.0982	98	71-133	5	35	mg/kg	03.19.20 12:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		107		108		70-130	%	03.19.20 12:41
4-Bromofluorobenzene	94		93		95		70-130	%	03.19.20 12:41

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3120331 | Matrix: Soil | Date Prep: 03.19.20
Parent Sample Id: 656196-001 | MS Sample Id: 656196-001 S | MSD Sample Id: 656196-001 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	0.103	103	0.104	105	70-130	1	35	mg/kg	03.19.20 13:22	
Toluene	<0.00200	0.100	0.0933	93	0.0844	85	70-130	10	35	mg/kg	03.19.20 13:22	
Ethylbenzene	<0.00200	0.100	0.0877	88	0.0770	78	71-129	13	35	mg/kg	03.19.20 13:22	
m,p-Xylenes	<0.00400	0.200	0.178	89	0.153	77	70-135	15	35	mg/kg	03.19.20 13:22	
o-Xylene	<0.00200	0.100	0.0916	92	0.0828	83	71-133	10	35	mg/kg	03.19.20 13:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	03.19.20 13:22
4-Bromofluorobenzene	96		94		70-130	%	03.19.20 13:22

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: 452197

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

Project Manager:	Chris Mckisson	Bill to: (if different)	Chris Mckisson
Company Name:	LT Environmental, Inc.,	Company Name:	LT Environmental
Address:	820 Megan Ave, Unit B	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	970-285-9985	Email:	Jhill@ltenv.com, cmckisson@ltenv.com

Work Order Comments

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

Project Name:	RDU 42	Turn Around	
Project Number:	03482000 01	Routine	☑
P.O. Number:	1/6/20 Spill date	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.0	Thermometer ID	TH1007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS 25A	s	3/18/20	1320	0.5'	1	X	X	X
	s							
	s							
	s							
	s							
	s							
	s							
	s							
	s							
	s							

Work Order Notes

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

Sample Comments

composite

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/19/20 7:50am	2		3/19/20 08:15
			4		
			6		

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.19.2020 08.15.00 AM

Work Order #: 656197

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

Temperature Measuring device used : T-NM-007

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.19.2020

Checklist reviewed by: Jessica Kramer Date: 03.19.2020

ATTACHMENT 4: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Photograph 1: View of the Site facing northeast.

Photograph 2: View of the Site facing south.

Photograph 3: View of the Site facing north.

Photograph 4: View of the Site facing west.

Ross Draw Unit #042
32.026123308, -103.8718851
Photographs Taken: January 6, 2020 though March 10, 2020

A proud member of WSP

Photograph 5: West view of the Site during excavation events.

Photograph 6: Northeast view of the Site during excavation events.

Photograph 7: West view of the Site during excavation events.

Photograph 8: Southwest view of the Site during excavation events.

Photograph 9: Southeast view of the Site during excavation events.

Photograph 10: Northeast view of the Site during excavation events.

Photograph 11: Northeast view of the Site during excavation events.

Photograph 12: Northwest view of the Site during excavation events.

PHOTOGRAPHIC LOG

Photograph 13: Northeast view of the Site following restoration events.

Photograph 14: Southwest view of the Site following restoration events.

Photograph 15: Southwest view of the Site following restoration events.

Photograph 16: Northeast view of the Site following restoration events.

Photograph 17: Southwest view of the Site following restoration events.

Photograph 18: West view of the Site following restoration events.

Photograph 19: Southwest view of the Site following restoration events.

Photograph 20: South view of the Site following restoration events.