



February 14th, 2022
 NMOCD District 2
 1220 S St Francis Dr # 3,
 Santa Fe, NM 87505

LT Environmental, Inc.

3300 North "A" Street
 Building 1, Unit 103
 Midland, Texas 79705
 432.704.5178

RE:
Request for Closure

**WPX Energy Permian, Inc. Remediation
 Permit Number 2RP-4121 (NAB1704831420)
 McKittrick 29-22
 Eddy County, New Mexico**

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of WPX Energy Permian, Inc. (WPX), is pleased to present the following Request for Closure letter report detailing excavation and soil sampling activities at the McKittrick 29-22 well pad (Site) located in Unit E, Section 29, Township 22 South, Range 26 East, Eddy County, New Mexico, as depicted on Figure 1.

Soil sampling activities were conducted in response to a release of approximately 32 barrels (bbls) of oil due to corrosion of the oil tank. The release was discovered on January 30, 2017. The release was mostly contained within the earthen unlined containment berm surrounding the tank with approximately 0.5 bbls breaching the containment onto the well pad surface. The release did not migrate off location and affected approximately 1,250 square feet of the well pad surface. The release footprint was mapped (Figure 2), and the impacted soil was excavated and transported off site for disposal. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on February 15, 2017 and was subsequently assigned Remediation Permit (RP) Number 2RP-4121 (Attachment 1). Based on the initial response efforts and the results of the excavation confirmation soil sampling, WPX is requesting no further action for this release event.

BACKGROUND

LTE determined closure criteria 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 C 01788, located approximately 2,534 feet southwest of the Site. Water well C 01788 has a reported depth to water of 150 feet bgs and is approximately 43 feet higher





in elevation than the Site. The closest significant watercourse to the Site is an Office of the State Engineer (OSE) stream located approximately 178 feet northwest of the Site. The Site is greater than 300 feet from any occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a high-potential karst area. 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); 100 mg/kg total petroleum hydrocarbons (TPH); and 600 mg/kg chloride.

EXCAVATION AND DELINEATION SAMPLING

From April 23 to May 9, 2019, LTE was on site to oversee excavation activities within the release area following the removal of the failed production tank. Excavation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using a photo-ionization detector (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 excavation area and soil sample locations are depicted on Figure 2.

Soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name or initials, and method of analysis and immediately placed on ice. The samples were shipped at or below 4 degrees Celsius (°C) to Xenco Laboratories in Midland, Texas, under strict chain-of-custody (COC) procedures 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, and chloride following USEPA Method 300.0. Laboratory analytical results of all floor and sidewall initial excavation confirmation soil samples indicated additional excavation appeared warranted to remove residual TPH impacts in soil.

On June 5, 2019, LTE returned to the Site after additional excavation activities were conducted by WPX. The final excavation area measured approximately 1,900 square feet in lateral area and 8 feet bgs in depth. Excavation confirmation soil samples were collected, handled, and analyzed as previously described. Laboratory analytical results of confirmation soil sample FS04 at approximately 8 feet bgs indicated TPH in soil exceeded the NMOCD Table 1 Closure Criteria at a concentration of 112 mg/kg.

On July 12, 2019, LTE returned to the Site to resample the area represented by soil sample FS04. Soil sample FS05 was collected from the area, handled, and analyzed as previously described. A total of 600 cubic yards of impacted soil were excavated and transported to the R360 facility located in Halfway, New Mexico. Photographs taken during on site activities are included in Attachment 2.





Billings, B.
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ANALYTICAL RESULTS

Laboratory analytical results of all final excavation soil samples indicated BTEX, TPH, and chloride concentrations were compliant with the NMOCD Table 1 Closure Criteria. Laboratory analytical results are presented on Figures 2 and 3 and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 3.

CONCLUSIONS

Laboratory analytical results for the excavation confirmation soil samples indicated BTEX, TPH, and chloride concentrations are compliant with NMOCD Table 1. Response efforts including excavation of impacted material within the release footprint have mitigated impacts at the Site. As a result, WPX requests no further action for 2RP-4121. An updated Form C-141 is included in Attachment 1.

If you have any questions or comments, please do not hesitate to contact Mr. Chris McKisson at (970) 285-9985 or cmckisson@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Chris McKisson
Project Environmental Scientist

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

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

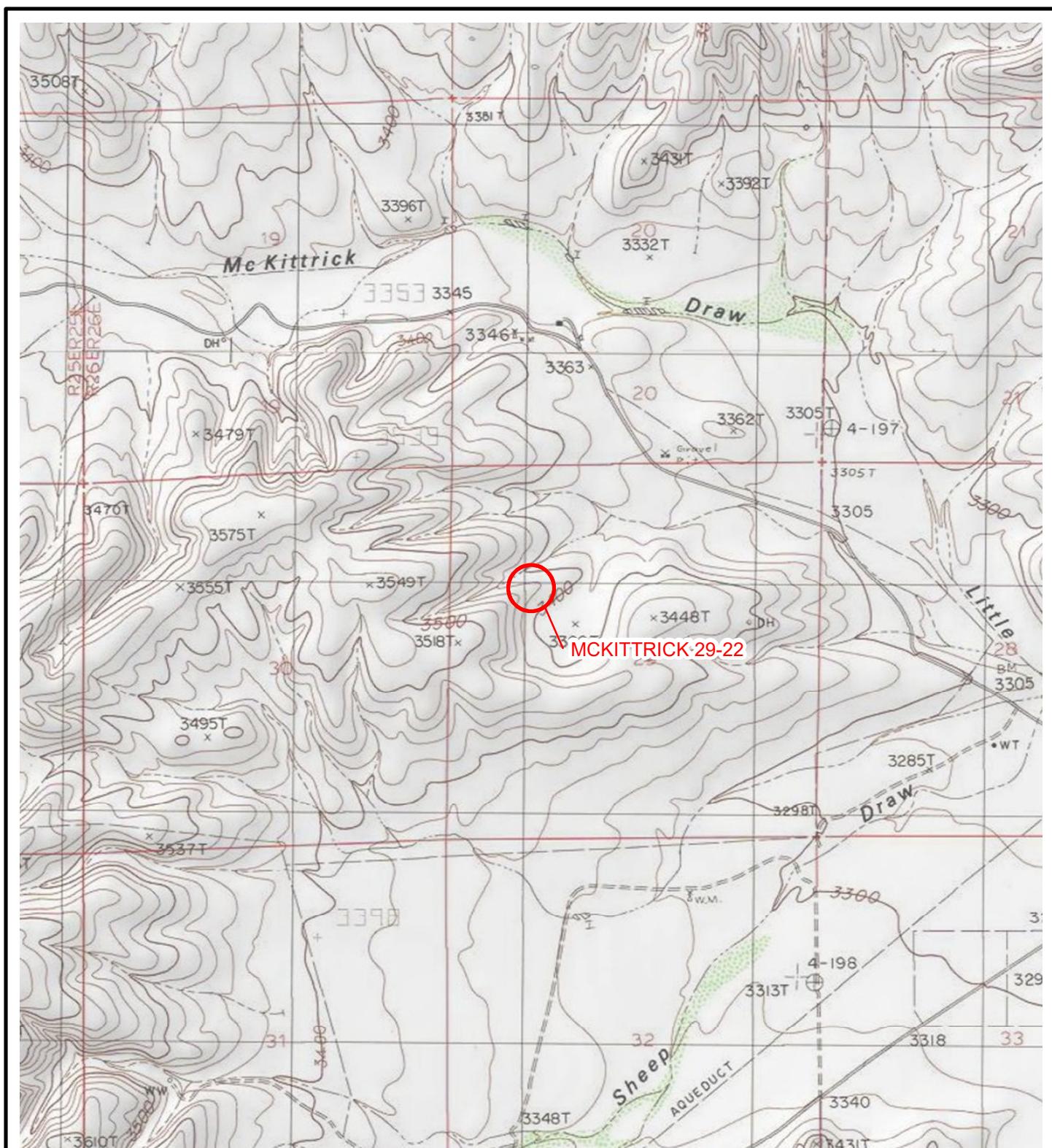
Attachments:

- Figure 1 Site Location Map
- Figure 2 Excavation Soil Sample Locations (5/9/2019)
- Figure 3 Excavation Soil Sample Locations (6/5/2019 & 7/12/2019)
- Table 1 Soil Analytical Results
- Attachment 1 Form C-141
- Attachment 2 Photographic Log
- Attachment 3 Laboratory Analytical Reports



FIGURES



**LEGEND**

○ SITE LOCATION

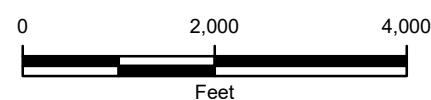


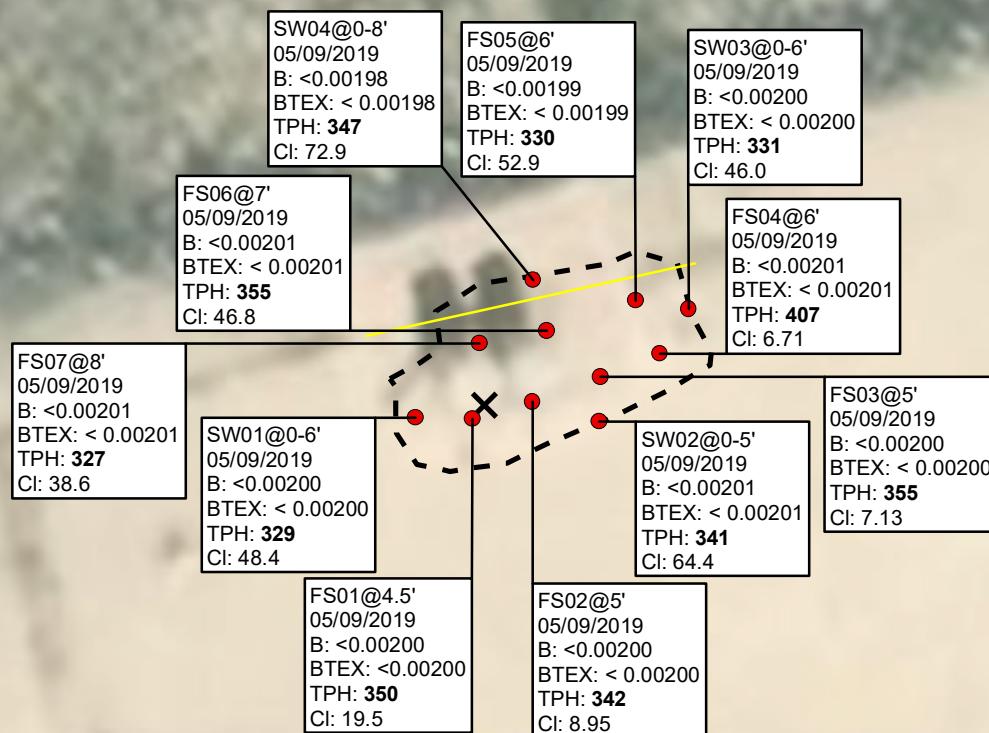
IMAGE COURTESY OF ESRI/USGS

NOTE: REMEDIATION PERMIT NUMBER 2RP-4121

FIGURE 1
SITE LOCATION MAP
MCKITTRICK 29-22
UNIT E SEC 29 T22S R26E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.



SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 SAMPLE DATE
 NMOCD TABLE 1 CLOSURE CRITERIA (NMAC 19.15.29.12)
 B = 10 mg/kg
 BTEX = 50 mg/kg
 TPH = 100 mg/kg
 CI = 600 mg/kg
 ALL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)
 <: INDICATES RESULT IS LESS THAN THE
 LABORATORY REPORTING LIMIT
BOLD: INDICATES RESULT EXCEEDS THE
 APPLICABLE STANDARD
 NMOCD: NEW MEXICO OIL CONSERVATION DIVISION
 REGULATORY STANDARD



LEGEND

X RELEASE LOCATION

— GAS LINE

[] EXCAVATION EXTENT

B: BENZENE

BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE,
AND TOTAL XYLENES

TPH: TOTAL PETROLEUM HYDROCARBONS

CI: CHLORIDE

NMAC: NEW MEXICO ADMINISTRATIVE CODE

NMOCD: NEW MEXICO OIL CONSERVATION DIVISION

NOTE: REMEDIATION PERMIT NUMBER 2RP-4121

IMAGE COURTESY OF GOOGLE EARTH 2019

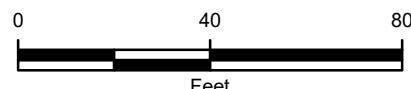
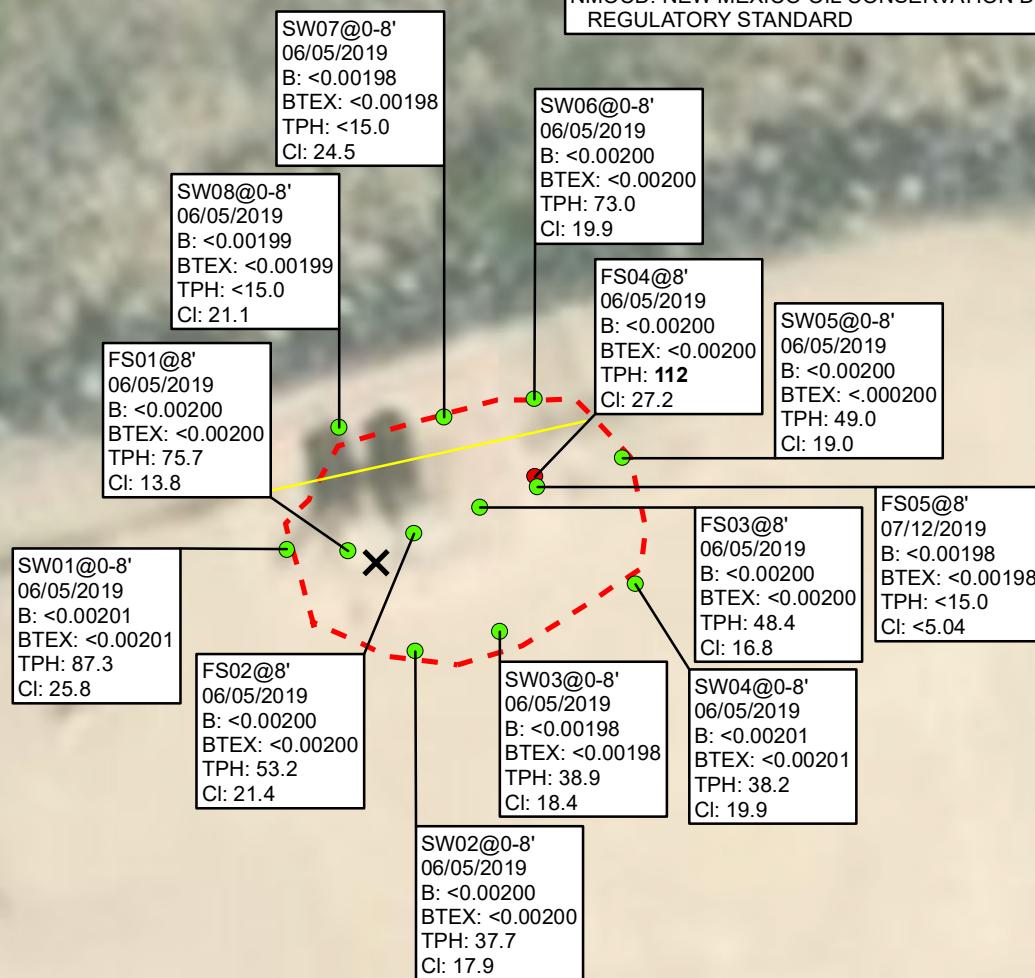


FIGURE 2
 EXCAVATION SOIL SAMPLE LOCATIONS (5/9/2019)
 MCKITTRICK 29-22
 UNIT E SEC 29 T22S R26E
 EDDY COUNTY, NEW MEXICO
 WPX ENERGY PERMIAN, LLC.



SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 SAMPLE DATE
 NMOCDB TABLE 1 CLOSURE CRITERIA (NMAC 19.15.29.12)
 B = 10 mg/kg
 BTEX = 50 mg/kg
 TPH = 100 mg/kg
 CI = 600 mg/kg
 ALL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)
 <: INDICATES RESULT IS LESS THAN THE
 LABORATORY REPORTING LIMIT
BOLD: INDICATES RESULT EXCEEDS THE
 APPLICABLE STANDARD
 NMOCDB: NEW MEXICO OIL CONSERVATION DIVISION
 REGULATORY STANDARD



LEGEND

- ✗ RELEASE LOCATION
- EXCAVATION SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- EXCAVATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE
- [Dashed Red Box] EXCAVATION EXTENT

B: BENZENE
 BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE,
 AND TOTAL XYLENES
 TPH: TOTAL PETROLEUM HYDROCARBONS
 CI: CHLORIDE
 NMAC: NEW MEXICO ADMINISTRATIVE CODE
 NMOCDB: NEW MEXICO OIL CONSERVATION DIVISION
 NOTE: REMEDIATION PERMIT NUMBER 2RP-4121

IMAGE COURTESY OF GOOGLE EARTH 2019

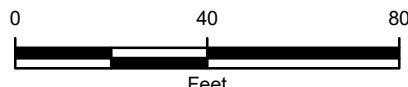


FIGURE 3
 EXCAVATION SOIL SAMPLE LOCATIONS (6/5/2019)
 MCKITTRICK 29-22
 UNIT E SEC 29 T22S R26E
 EDDY COUNTY, NEW MEXICO
 WPX ENERGY PERMIAN, LLC.



TABLE



TABLE 1
SOIL ANALYTICAL RESULTS

MCKITTRICK 29-22
REMEDIATION PERMIT NUMBER 2RP-4121
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Sum of GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
FS01	4.5	05/09/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	263	86.9	263	350	19.5
FS02	5	05/09/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	261	80.7	261	342	8.95
FS03	5	05/09/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	270	84.9	270	355	7.13
FS04	6	05/09/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	311	95.8	311	407	6.71
FS05	6	05/09/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	257	72.5	257	330	52.9
FS06	7	05/09/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	275	80.1	275	355	46.8
FS07	8	05/09/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	256	71.2	256	327	38.6
SW01	0-6	05/09/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	256	73.0	256	329	48.4
SW02	0-5	05/09/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	271	70.1	271	341	64.4
SW03	0-6	05/09/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	260	71.1	260	331	46.0
SW04	0-8	05/09/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	274	73.0	274	347	72.9
FS01	8	06/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	25.1	50.6	<15.0	75.7	75.7	13.8
FS02	8	06/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	53.2	<14.9	53.2	53.2	21.4
FS03	8	06/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	48.4	<15.0	48.4	48.4	16.8
FS04	8	06/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	112	<15.0	112	112	27.2
SW01	0-8	06/05/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	87.3	<15.0	87.3	87.3	25.8
SW02	0-8	06/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	37.7	<14.9	37.7	37.7	17.9
SW03	0-8	06/05/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	38.9	<15.0	38.9	38.9	18.4
SW04	0-8	06/05/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	38.2	<15.0	38.2	38.2	19.9
SW05	0-8	06/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	49.0	<15.0	49.0	49.0	19.0
SW06	0-8	06/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	73.0	<15.0	73.0	73.0	19.9
SW07	0-8	06/05/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	24.5
SW08	0-8	06/05/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	21.1
FS05	8	07/12/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	<5.04
NMOCD Table 1 Closure Criteria		10	NE	NE	NE	50	NE	NE	NE	NE	100	600	

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - not established

NMOCD - New Mexico Oil Conservation Division

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

TPH - total petroleum hydrocarbons

< - indicates result is below

Bold- indicates result exceeds the applicable regulatory

standard

ATTACHMENT 1: FORM C-141



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

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

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 15 2017

Form C-141
Revised August 8, 2011Submit 1 Copy to appropriate District Office in
RECEIVED
accordance with 19.15.29 NMAC.**Release Notification and Corrective Action**

NABID4831420

OPERATOR Initial Report Final Report

Name of Company	WPX Energy Inc/RKI	Contact	Karolina Blaney
Address	5315 Buena Vista Dr.	Telephone No.	970 589 0743
Facility Name:	McKittrick 29-22	Facility Type:	Well Pad

Surface Owner: Private	Mineral Owner: Federal	API No. 30- 015-29351
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	29	22S	26E	1715	FNL	1160	FWL	Eddy

32.3657379 Latitude: 32.01139288N Longitude: -103.86641694W -104.3199844

NATURE OF RELEASE

Type of Release, Oil	Volume of Release: 32 Bbls	Volume Recovered: 0 Bbls
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Tank	1/30/2017	1/30/2017 – 11:30 hrs MT
Was Immediate Notice Given?	If YES, To Whom? NMOCD Crystal Weaver & Michael Bratcher, BLM Shelly Tucker	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required		
By Whom? Karolina Blaney	Date and Hour: 2/1/17 – 6:50 hrs MT	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse. N/A	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

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

Describe Cause of Problem and Remedial Action Taken.*

The spill was caused by equipment failure; corroded hole in the oil tank. Approximately 32 bbls of oil leaked out of the tank into a dirt SPCC containment. Less than 0.5 bbl saturated the berm and stained a small area outside the berm. The spill did not migrate off location.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was mapped with a Trimble. The impacted soil was field screened for hydrocarbons and exceeded the cleanup thresholds of 5,000 ppm at 10" below surface. The delineation plan for the hydrocarbon and chloride impacts will be sent to BLM and OCD within 30 days of this submittal.

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

Signature: <i>Karolina Blaney</i>	OIL CONSERVATION DIVISION		
Printed Name: Karolina Blaney	Approved by Environmental Specialist: <i>[Signature]</i>		
Title: Environmental Specialist	Approval Date: 2/17/17	Expiration Date: N/A	
E-mail Address: Karolina.blaney@wpxenergy.com	Conditions of Approval: <i>See Attached</i>		Attached <input type="checkbox"/>
Date: 2/15/2016	Phone: 970-589-0743		

Attach Additional Sheets If Necessary

2RP-4121

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	NAB1704831420
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	WPX Energy, Inc.	OGRID	246289
Contact Name	Jim Raley	Contact Telephone	575-689-7597
Contact email	jim.raley@dvn.com	Incident # (assigned by OCD)	NAB1704831420
Contact mailing address	5315 Buena Vista Dr., Carlsbad, NM 88220		

Location of Release Source

Latitude **32.3657379** Longitude **-104.3199844**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	McKittrick 29-22	Site Type	Oil Well Pad
Date Release Discovered	1/30/2017	API# (if applicable)	30-015-29351

Unit Letter	Section	Township	Range	County
E	29	22S	26E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 32	Volume Recovered (bbls) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The spill was caused by equipment failure; corroded hole in the oil tank. Approximately 32 bbls of oil leaked out of the tank into the dirt SPCC containment. Less than 0.5 bbls saturated the berm and stained a small area outside the berm. The spill did not migrate off location.

Incident ID	
District RP	NAB1704831420
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of volume greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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: 

2/14/2022

Date: email: **jim.raley@dvn.com** Telephone: **575-689-7597**

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	NAB1704831420
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?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

Incident ID	
District RP	NAB1704831420
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:  _____

2/14/2022

Date: email: **jim.raley@dvn.com**

Telephone: **575-689-7597**

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	NAB1704831420
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: 

Date: 2/14/2022

jim.raley@dvn.com

email:

Telephone: 575-689-7597

OCD Only

Received by: OCD

Date: 7/12/2022

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 it relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: 9/14/2022

Printed Name: Ashley Maxwell

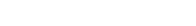
Title: Environmental Specialist

ATTACHMENT 2: PHOTOGRAPHIC LOG





Release footprint – view north

Project: 034819010	WPX Energy Permian, Inc. McKittrick 29-22	 <i>Advancing Opportunity</i>
March 20, 2019	Photographic Log	



Release footprint – view west

Project: 034819010	WPX Energy Permian, Inc. McKittrick 29-22	 <i>Advancing Opportunity</i>
March 20, 2019	Photographic Log	



Excavation area – view northeast

Project: 034819010	WPX Energy Permian, Inc. McKittrick 29-22	 <i>Advancing Opportunity</i>
June 5, 2019	Photographic Log	



Excavation area – view north

Project: 034819010	WPX Energy Permian, Inc. McKittrick 29-22	 <i>Advancing Opportunity</i>
July 12, 2019	Photographic Log	

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS



Analytical Report 624024

for
LT Environmental, Inc.

Project Manager: Chris McKisson

McKittrick 29-22

034819010

17-MAY-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)



17-MAY-19

Project Manager: **Chris McKisson**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **624024**

McKittrick 29-22

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) 624024. 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. 624024 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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

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

Sample Cross Reference 624024

LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	05-09-19 08:00	4.5 ft	624024-001
FS02	S	05-09-19 08:30	5 ft	624024-002
FS03	S	05-09-19 09:00	5 ft	624024-003
FS04	S	05-09-19 09:30	6 ft	624024-004
FS05	S	05-09-19 10:30	6 ft	624024-005
FS06	S	05-09-19 11:00	7 ft	624024-006
FS07	S	05-09-19 11:30	8 ft	624024-007
SW01	S	05-09-19 11:50	0 - 6 ft	624024-008
SW02	S	05-09-19 12:10	0 - 5 ft	624024-009
SW03	S	05-09-19 12:30	0 - 6 ft	624024-010
SW04	S	05-09-19 12:50	0 - 8 ft	624024-011



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: McKittrick 29-22

Project ID: 034819010
Work Order Number(s): 624024

Report Date: 17-MAY-19
Date Received: 05/13/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3089058 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3089157 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 624024-007 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Benzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 624024-007, -008, -009, -010, -011.

The Laboratory Control Sample for Benzene is within laboratory Control Limits, therefore the data was accepted.



Project Id: 034819010
Contact: Chris McKisson
Project Location:

Certificate of Analysis Summary 624024

LT Environmental, Inc., Arvada, CO

Project Name: McKittrick 29-22



Date Received in Lab: Mon May-13-19 10:50 am
Report Date: 17-MAY-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	624024-001	624024-002	624024-003	624024-004	624024-005	624024-006
BTEX by EPA 8021B	Extracted:	May-14-19 15:00					
	Analyzed:	May-15-19 05:03	May-15-19 05:22	May-15-19 05:41	May-15-19 06:00	May-15-19 06:19	May-15-19 06:38
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00401	0.00401	<0.00399	0.00399	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300	Extracted:	May-14-19 10:00	May-14-19 10:00	May-14-19 10:00	May-14-19 10:00	May-14-19 11:40	May-14-19 11:40
	Analyzed:	May-14-19 14:53	May-14-19 15:14	May-14-19 15:21	May-14-19 15:28	May-14-19 12:18	May-14-19 12:39
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		19.5	4.98	8.95	5.00	7.13	5.04
TPH by SW8015 Mod	Extracted:	May-14-19 17:00					
	Analyzed:	May-14-19 22:51	May-14-19 23:51	May-15-19 00:11	May-15-19 00:31	May-15-19 00:51	May-15-19 01:10
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		263	15.0	261	15.0	270	15.0
Motor Oil Range Hydrocarbons (MRO)		86.9	15.0	80.7	15.0	84.9	15.0
Total TPH		350	15.0	342	15.0	355	15.0
Total GRO-DRO		263	15.0	261	15.0	270	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Version: 1.%

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 624024

LT Environmental, Inc., Arvada, CO

Project Name: McKittrick 29-22

Project Id: 034819010
 Contact: Chris McKisson
 Project Location:

Date Received in Lab: Mon May-13-19 10:50 am
 Report Date: 17-MAY-19
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	624024-007	624024-008	624024-009	624024-010	624024-011	
BTEX by EPA 8021B	Extracted:	May-15-19 15:15					
	Analyzed:	May-15-19 17:47	May-15-19 18:07	May-15-19 18:26	May-15-19 18:45	May-15-19 19:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00200	<0.00198 0.00198
Toluene	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00200	<0.00198 0.00198
Ethylbenzene	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00200	<0.00198 0.00198
m,p-Xylenes	<0.00402	0.00402	<0.00400	0.00400	<0.00402	0.00402	<0.00397 0.00397
o-Xylene	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00198 0.00198
Total Xylenes	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00200	<0.00198 0.00198
Total BTEX	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00200	<0.00198 0.00198
Inorganic Anions by EPA 300	Extracted:	May-14-19 11:40					
	Analyzed:	May-14-19 12:47	May-14-19 12:54	May-14-19 13:01	May-14-19 13:23	May-14-19 13:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride	38.6	5.02	48.4	5.02	64.4	5.03	46.0 4.95 72.9 5.00
TPH by SW8015 Mod	Extracted:	May-14-19 17:00					
	Analyzed:	May-15-19 01:30	May-15-19 01:51	May-15-19 02:11	May-15-19 02:31	May-15-19 03:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0 15.0
Diesel Range Organics (DRO)	256	15.0	256	15.0	271	15.0	260 15.0 274 15.0
Motor Oil Range Hydrocarbons (MRO)	71.2	15.0	73.0	15.0	70.1	15.0	71.1 15.0 73.0 15.0
Total TPH	327	15.0	329	15.0	341	15.0	331 15.0 347 15.0
Total GRO-DRO	256	15.0	256	15.0	271	15.0	260 15.0 274 15.0

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 The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
 XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
 Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%



Jessica Kramer
 Project Assistant



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS01**
Lab Sample Id: 624024-001

Matrix: Soil
Date Collected: 05.09.19 08.00

Date Received: 05.13.19 10.50
Sample Depth: 4.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.19 10.00

Basis: Wet Weight

Seq Number: 3088959

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.5	4.98	mg/kg	05.14.19 14.53		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.14.19 17.00

Basis: Wet Weight

Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.14.19 22.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	263	15.0	mg/kg	05.14.19 22.51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	86.9	15.0	mg/kg	05.14.19 22.51		1
Total TPH	PHC635	350	15.0	mg/kg	05.14.19 22.51		1
Total GRO-DRO	PHC628	263	15.0	mg/kg	05.14.19 22.51		1
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3		93	%	70-135	05.14.19 22.51	
o-Terphenyl	84-15-1		89	%	70-135	05.14.19 22.51	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS01**
Lab Sample Id: 624024-001

Matrix: Soil
Date Collected: 05.09.19 08.00

Date Received: 05.13.19 10.50
Sample Depth: 4.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.14.19 15.00

Basis: Wet Weight

Seq Number: 3089058

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.15.19 05.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.15.19 05.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.15.19 05.03	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.15.19 05.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.15.19 05.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.15.19 05.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.15.19 05.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	105	%	70-130	05.15.19 05.03	
1,4-Difluorobenzene		540-36-3	103	%	70-130	05.15.19 05.03	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS02**
Lab Sample Id: 624024-002

Matrix: Soil
Date Collected: 05.09.19 08.30

Date Received: 05.13.19 10.50
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.19 10.00

Basis: Wet Weight

Seq Number: 3088959

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.95	5.00	mg/kg	05.14.19 15.14		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.14.19 17.00

Basis: Wet Weight

Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.14.19 23.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	261	15.0	mg/kg	05.14.19 23.51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	80.7	15.0	mg/kg	05.14.19 23.51		1
Total TPH	PHC635	342	15.0	mg/kg	05.14.19 23.51		1
Total GRO-DRO	PHC628	261	15.0	mg/kg	05.14.19 23.51		1
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3		93	%	70-135	05.14.19 23.51	
o-Terphenyl	84-15-1		89	%	70-135	05.14.19 23.51	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS02**
Lab Sample Id: 624024-002

Matrix: Soil
Date Collected: 05.09.19 08.30

Date Received: 05.13.19 10.50
Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.14.19 15.00

Basis: Wet Weight

Seq Number: 3089058

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.15.19 05.22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.15.19 05.22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.15.19 05.22	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.15.19 05.22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.15.19 05.22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.15.19 05.22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.15.19 05.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.15.19 05.22	
1,4-Difluorobenzene		540-36-3	104	%	70-130	05.15.19 05.22	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS03** Matrix: Soil Date Received: 05.13.19 10.50
 Lab Sample Id: 624024-003 Date Collected: 05.09.19 09.00 Sample Depth: 5 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.14.19 10.00 Basis: Wet Weight
 Seq Number: 3088959

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.13	5.04	mg/kg	05.14.19 15.21		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 05.14.19 17.00 Basis: Wet Weight
 Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 00.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	270	15.0	mg/kg	05.15.19 00.11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	84.9	15.0	mg/kg	05.15.19 00.11		1
Total TPH	PHC635	355	15.0	mg/kg	05.15.19 00.11		1
Total GRO-DRO	PHC628	270	15.0	mg/kg	05.15.19 00.11		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-135	05.15.19 00.11		
o-Terphenyl	84-15-1	87	%	70-135	05.15.19 00.11		



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS03**
Lab Sample Id: 624024-003

Matrix: Soil
Date Collected: 05.09.19 09.00

Date Received: 05.13.19 10.50
Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.14.19 15.00

Basis: Wet Weight

Seq Number: 3089058

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.15.19 05.41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.15.19 05.41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.15.19 05.41	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.15.19 05.41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.15.19 05.41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.15.19 05.41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.15.19 05.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	105	%	70-130	05.15.19 05.41	
1,4-Difluorobenzene		540-36-3	102	%	70-130	05.15.19 05.41	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS04** Matrix: Soil Date Received: 05.13.19 10.50
Lab Sample Id: 624024-004 Date Collected: 05.09.19 09.30 Sample Depth: 6 ft
Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 05.14.19 10.00 Basis: Wet Weight
Seq Number: 3088959

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.71	4.99	mg/kg	05.14.19 15.28		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 05.14.19 17.00 Basis: Wet Weight
Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 00.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	311	15.0	mg/kg	05.15.19 00.31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	95.8	15.0	mg/kg	05.15.19 00.31		1
Total TPH	PHC635	407	15.0	mg/kg	05.15.19 00.31		1
Total GRO-DRO	PHC628	311	15.0	mg/kg	05.15.19 00.31		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	05.15.19 00.31		
o-Terphenyl	84-15-1	88	%	70-135	05.15.19 00.31		



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: FS04	Matrix: Soil	Date Received: 05.13.19 10.50
Lab Sample Id: 624024-004	Date Collected: 05.09.19 09.30	Sample Depth: 6 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: SCM		% Moisture:
Analyst: SCM	Date Prep: 05.14.19 15.00	Basis: Wet Weight
Seq Number: 3089058		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.15.19 06.00	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.15.19 06.00	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.15.19 06.00	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.15.19 06.00	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.15.19 06.00	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.15.19 06.00	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.15.19 06.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	05.15.19 06.00		
4-Bromofluorobenzene	460-00-4	93	%	70-130	05.15.19 06.00		



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS05**
Lab Sample Id: 624024-005

Matrix: Soil
Date Collected: 05.09.19 10.30

Date Received: 05.13.19 10.50
Sample Depth: 6 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.19 11.40

Basis: Wet Weight

Seq Number: 3089035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.9	5.02	mg/kg	05.14.19 12.18		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.14.19 17.00

Basis: Wet Weight

Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 00.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	257	15.0	mg/kg	05.15.19 00.51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	72.5	15.0	mg/kg	05.15.19 00.51		1
Total TPH	PHC635	330	15.0	mg/kg	05.15.19 00.51		1
Total GRO-DRO	PHC628	257	15.0	mg/kg	05.15.19 00.51		1
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3		97	%	70-135	05.15.19 00.51	
o-Terphenyl	84-15-1		92	%	70-135	05.15.19 00.51	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS05**
Lab Sample Id: 624024-005

Matrix: Soil
Date Collected: 05.09.19 10.30

Date Received: 05.13.19 10.50
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.14.19 15.00

Basis: Wet Weight

Seq Number: 3089058

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.15.19 06.19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.15.19 06.19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.15.19 06.19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.15.19 06.19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.15.19 06.19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.15.19 06.19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.15.19 06.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.15.19 06.19	
1,4-Difluorobenzene		540-36-3	101	%	70-130	05.15.19 06.19	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS06**
Lab Sample Id: 624024-006

Matrix: Soil
Date Collected: 05.09.19 11.00

Date Received: 05.13.19 10.50
Sample Depth: 7 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.19 11.40

Basis: Wet Weight

Seq Number: 3089035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.8	5.01	mg/kg	05.14.19 12.39		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.14.19 17.00

Basis: Wet Weight

Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 01.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	275	15.0	mg/kg	05.15.19 01.10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	80.1	15.0	mg/kg	05.15.19 01.10		1
Total TPH	PHC635	355	15.0	mg/kg	05.15.19 01.10		1
Total GRO-DRO	PHC628	275	15.0	mg/kg	05.15.19 01.10		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	98	%	70-135	05.15.19 01.10		
o-Terphenyl	84-15-1	92	%	70-135	05.15.19 01.10		



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS06**
Lab Sample Id: 624024-006

Matrix: Soil
Date Collected: 05.09.19 11:00

Date Received: 05.13.19 10:50
Sample Depth: 7 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.14.19 15:00

Basis: Wet Weight

Seq Number: 3089058

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.15.19 06:38	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.15.19 06:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.15.19 06:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.15.19 06:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.15.19 06:38	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.15.19 06:38	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.15.19 06:38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	103	%	70-130	05.15.19 06:38	
1,4-Difluorobenzene		540-36-3	103	%	70-130	05.15.19 06:38	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS07**
Lab Sample Id: 624024-007

Matrix: Soil
Date Collected: 05.09.19 11.30

Date Received: 05.13.19 10.50
Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.19 11.40

Basis: Wet Weight

Seq Number: 3089035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.6	5.02	mg/kg	05.14.19 12.47		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.14.19 17.00

Basis: Wet Weight

Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 01.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	256	15.0	mg/kg	05.15.19 01.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	71.2	15.0	mg/kg	05.15.19 01.30		1
Total TPH	PHC635	327	15.0	mg/kg	05.15.19 01.30		1
Total GRO-DRO	PHC628	256	15.0	mg/kg	05.15.19 01.30		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	05.15.19 01.30		
o-Terphenyl	84-15-1	92	%	70-135	05.15.19 01.30		



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: FS07	Matrix: Soil	Date Received: 05.13.19 10.50
Lab Sample Id: 624024-007	Date Collected: 05.09.19 11.30	Sample Depth: 8 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: SCM		% Moisture:
Analyst: SCM	Date Prep: 05.15.19 15.15	Basis: Wet Weight
Seq Number: 3089157		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.15.19 17.47	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.15.19 17.47	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.15.19 17.47	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.15.19 17.47	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.15.19 17.47	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.15.19 17.47	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.15.19 17.47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3		100	%	70-130	05.15.19 17.47	
4-Bromofluorobenzene	460-00-4		94	%	70-130	05.15.19 17.47	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW01**
 Lab Sample Id: 624024-008

Matrix: Soil
 Date Collected: 05.09.19 11.50

Date Received: 05.13.19 10.50
 Sample Depth: 0 - 6 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.19 11.40

Basis: Wet Weight

Seq Number: 3089035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48.4	5.02	mg/kg	05.14.19 12.54		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.14.19 17.00

Basis: Wet Weight

Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 01.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	256	15.0	mg/kg	05.15.19 01.51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	73.0	15.0	mg/kg	05.15.19 01.51		1
Total TPH	PHC635	329	15.0	mg/kg	05.15.19 01.51		1
Total GRO-DRO	PHC628	256	15.0	mg/kg	05.15.19 01.51		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	05.15.19 01.51		
o-Terphenyl	84-15-1	88	%	70-135	05.15.19 01.51		



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW01**
Lab Sample Id: 624024-008

Matrix: Soil
Date Collected: 05.09.19 11.50

Date Received: 05.13.19 10.50
Sample Depth: 0 - 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM
Analyst: SCM
Seq Number: 3089157

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.15.19 18.07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.15.19 18.07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.15.19 18.07	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.15.19 18.07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.15.19 18.07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.15.19 18.07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.15.19 18.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	94	%	70-130	05.15.19 18.07	
1,4-Difluorobenzene		540-36-3	100	%	70-130	05.15.19 18.07	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW02**
Lab Sample Id: 624024-009

Matrix: Soil
Date Collected: 05.09.19 12.10

Date Received: 05.13.19 10.50
Sample Depth: 0 - 5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.19 11.40

Basis: Wet Weight

Seq Number: 3089035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.4	5.03	mg/kg	05.14.19 13.01		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.14.19 17.00

Basis: Wet Weight

Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 02.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	271	15.0	mg/kg	05.15.19 02.11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	70.1	15.0	mg/kg	05.15.19 02.11		1
Total TPH	PHC635	341	15.0	mg/kg	05.15.19 02.11		1
Total GRO-DRO	PHC628	271	15.0	mg/kg	05.15.19 02.11		1
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3		97	%	70-135	05.15.19 02.11	
o-Terphenyl	84-15-1		93	%	70-135	05.15.19 02.11	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW02**
Lab Sample Id: 624024-009

Matrix: Soil
Date Collected: 05.09.19 12.10

Date Received: 05.13.19 10.50
Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.15.19 15.15

Basis: Wet Weight

Seq Number: 3089157

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.15.19 18.26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.15.19 18.26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.15.19 18.26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.15.19 18.26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.15.19 18.26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.15.19 18.26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.15.19 18.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	101	%	70-130	05.15.19 18.26	
1,4-Difluorobenzene		540-36-3	102	%	70-130	05.15.19 18.26	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW03**
Lab Sample Id: 624024-010

Matrix: Soil
Date Collected: 05.09.19 12.30

Date Received: 05.13.19 10.50
Sample Depth: 0 - 6 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE
Analyst: CHE
Seq Number: 3089035

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.0	4.95	mg/kg	05.14.19 13.23		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM
Analyst: ARM
Seq Number: 3089071

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 02.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	260	15.0	mg/kg	05.15.19 02.31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	71.1	15.0	mg/kg	05.15.19 02.31		1
Total TPH	PHC635	331	15.0	mg/kg	05.15.19 02.31		1
Total GRO-DRO	PHC628	260	15.0	mg/kg	05.15.19 02.31		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	95	%	70-135	05.15.19 02.31		
o-Terphenyl	84-15-1	93	%	70-135	05.15.19 02.31		



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW03**
Lab Sample Id: 624024-010

Matrix: Soil
Date Collected: 05.09.19 12.30

Date Received: 05.13.19 10.50
Sample Depth: 0 - 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.15.19 15.15

Basis: Wet Weight

Seq Number: 3089157

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.15.19 18.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.15.19 18.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.15.19 18.45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.15.19 18.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.15.19 18.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.15.19 18.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.15.19 18.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	101	%	70-130	05.15.19 18.45	
1,4-Difluorobenzene		540-36-3	103	%	70-130	05.15.19 18.45	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW04**
Lab Sample Id: 624024-011

Matrix: Soil
Date Collected: 05.09.19 12.50

Date Received: 05.13.19 10.50
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.19 11.40

Basis: Wet Weight

Seq Number: 3089035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.9	5.00	mg/kg	05.14.19 13.30		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 05.14.19 17.00

Basis: Wet Weight

Seq Number: 3089071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	05.15.19 03.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	274	15.0	mg/kg	05.15.19 03.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	73.0	15.0	mg/kg	05.15.19 03.30		1
Total TPH	PHC635	347	15.0	mg/kg	05.15.19 03.30		1
Total GRO-DRO	PHC628	274	15.0	mg/kg	05.15.19 03.30		1
Surrogate	Cas Number		% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3		95	%	70-135	05.15.19 03.30	
o-Terphenyl	84-15-1		91	%	70-135	05.15.19 03.30	



Certificate of Analytical Results 624024



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW04**
Lab Sample Id: 624024-011

Matrix: Soil
Date Collected: 05.09.19 12.50

Date Received: 05.13.19 10.50
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.15.19 15.15

Basis: Wet Weight

Seq Number: 3089157

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.15.19 19.04	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.15.19 19.04	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.15.19 19.04	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.15.19 19.04	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.15.19 19.04	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.15.19 19.04	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.15.19 19.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.15.19 19.04	
1,4-Difluorobenzene		540-36-3	100	%	70-130	05.15.19 19.04	



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

LT Environmental, Inc.
 McKittrick 29-22

Analytical Method: Inorganic Anions by EPA 300										Prep Method:	E300P			
Seq Number:		3088959		Matrix:				Solid				Date Prep:	05.14.19	
MB Sample Id:		7677804-1-BLK		LCS Sample Id:				7677804-1-BKS				LCSD Sample Id:		7677804-1-BSD
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Chloride	<5.00	250	247	99	249	100	90-110	1	20	mg/kg	05.14.19 10:54			
Analytical Method: Inorganic Anions by EPA 300										Prep Method:	E300P			
Seq Number:		3089035		Matrix:				Solid				Date Prep:	05.14.19	
MB Sample Id:		7677803-1-BLK		LCS Sample Id:				7677803-1-BKS				LCSD Sample Id:		7677803-1-BSD
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Chloride	<5.00	250	254	102	254	102	90-110	0	20	mg/kg	05.14.19 12:03			
Analytical Method: Inorganic Anions by EPA 300										Prep Method:	E300P			
Seq Number:		3088959		Matrix:				Soil				Date Prep:	05.14.19	
Parent Sample Id:		623921-002		MS Sample Id:				623921-002 S				MSD Sample Id:		623921-002 SD
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Chloride	642	250	822	72	806	66	90-110	2	20	mg/kg	05.14.19 11:16	X		
Analytical Method: Inorganic Anions by EPA 300										Prep Method:	E300P			
Seq Number:		3089035		Matrix:				Soil				Date Prep:	05.14.19	
Parent Sample Id:		624051-002		MS Sample Id:				624051-002 S				MSD Sample Id:		624051-002 SD
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Chloride	1010	251	1200	76	1210	80	90-110	1	20	mg/kg	05.14.19 13:58	X		
Analytical Method: Inorganic Anions by EPA 300										Prep Method:	E300P			
Seq Number:		3089035		Matrix:				Soil				Date Prep:	05.14.19	
Parent Sample Id:		624024-005		MS Sample Id:				624024-005 S				MSD Sample Id:		624024-005 SD
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Chloride	52.9	251	304	100	302	99	90-110	1	20	mg/kg	05.14.19 12:25			

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

LT Environmental, Inc.

McKittrick 29-22

Analytical Method: Inorganic Anions by EPA 300

Seq Number:	3089035	Matrix:	Soil			Prep Method:	E300P
Parent Sample Id:	624025-004	MS Sample Id:	624025-004 S			Date Prep:	05.14.19
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits
Chloride	232	251	479	98	481	99	90-110
							0 20 mg/kg 05.14.19 14:07

Analytical Method: TPH by SW8015 Mod

Seq Number:	3089071	Matrix:	Solid			Prep Method:	TX1005P
MB Sample Id:	7677881-1-BLK	LCS Sample Id:	7677881-1-BKS			Date Prep:	05.14.19
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1080	108	1110	111	70-135
Diesel Range Organics (DRO)	<8.13	1000	1040	104	1080	108	70-135
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits
1-Chlorooctane	102		126		127		70-135
o-Terphenyl	103		106		115		70-135
							% 05.14.19 22:11
							% 05.14.19 22:11

Analytical Method: TPH by SW8015 Mod

Seq Number:	3089071	Matrix:	Soil			Date Prep:	05.14.19
Parent Sample Id:	624024-001	MS Sample Id:	624024-001 S			MSD Sample Id:	624024-001 SD
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits
Gasoline Range Hydrocarbons (GRO)	13.6	999	1000	99	996	98	70-135
Diesel Range Organics (DRO)	263	999	1150	89	1140	88	70-135
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits
1-Chlorooctane			120		120		70-135
o-Terphenyl			105		97		70-135
							% 05.14.19 23:11
							% 05.14.19 23:11

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

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

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

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

LT Environmental, Inc.

McKittrick 29-22

Analytical Method: BTEX by EPA 8021B

Seq Number:	3089058	Matrix: Solid				Prep Method: SW5030B			
MB Sample Id:	7677870-1-BLK	LCS Sample Id: 7677870-1-BKS				Date Prep: 05.14.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Benzene	<0.000384	0.0998	0.110	110	0.111	111	70-130	1	35
Toluene	<0.000455	0.0998	0.102	102	0.103	103	70-130	1	35
Ethylbenzene	<0.000564	0.0998	0.107	107	0.107	107	70-130	0	35
m,p-Xylenes	<0.00101	0.200	0.221	111	0.222	111	70-130	0	35
o-Xylene	<0.000344	0.0998	0.107	107	0.109	109	70-130	2	35
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		102		103		70-130	%	05.14.19 21:49
4-Bromofluorobenzene	82		97		99		70-130	%	05.14.19 21:49

Analytical Method: BTEX by EPA 8021B

Seq Number:	3089157	Matrix: Solid				Prep Method: SW5030B			
MB Sample Id:	7677944-1-BLK	LCS Sample Id: 7677944-1-BKS				Date Prep: 05.15.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Benzene	<0.000383	0.0996	0.114	114	0.119	119	70-130	4	35
Toluene	<0.000454	0.0996	0.106	106	0.111	111	70-130	5	35
Ethylbenzene	<0.000563	0.0996	0.113	113	0.117	117	70-130	3	35
m,p-Xylenes	<0.00101	0.199	0.234	118	0.243	122	70-130	4	35
o-Xylene	<0.000343	0.0996	0.112	112	0.117	117	70-130	4	35
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		101		103		70-130	%	05.15.19 15:44
4-Bromofluorobenzene	83		94		99		70-130	%	05.15.19 15:44

Analytical Method: BTEX by EPA 8021B

Seq Number:	3089058	Matrix: Soil				Prep Method: SW5030B			
Parent Sample Id:	623942-002	MS Sample Id: 623942-002 S				Date Prep: 05.14.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Benzene	0.000504	0.100	0.0963	96	0.0994	99	70-130	3	35
Toluene	<0.000457	0.100	0.0873	87	0.0912	92	70-130	4	35
Ethylbenzene	<0.000566	0.100	0.0884	88	0.0932	94	70-130	5	35
m,p-Xylenes	<0.00102	0.200	0.181	91	0.193	97	70-130	6	35
o-Xylene	0.000474	0.100	0.0879	87	0.0934	93	70-130	6	35
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene			103		103		70-130	%	05.14.19 22:27
4-Bromofluorobenzene			101		102		70-130	%	05.14.19 22:27

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

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

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

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



LT Environmental, Inc.

McKittrick 29-22

Analytical Method: BTEX by EPA 8021B

Seq Number: 3089157

Matrix: Soil

Prep Method: SW5030B

Parent Sample Id: 624024-007

MS Sample Id: 624024-007 S

Date Prep: 05.15.19

MSD Sample Id: 624024-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.0938	94	0.0671	68	70-130	33	35	mg/kg	05.15.19 16:29	X
Toluene	0.000473	0.100	0.0805	80	0.0704	70	70-130	13	35	mg/kg	05.15.19 16:29	
Ethylbenzene	<0.000567	0.100	0.0747	75	0.0729	73	70-130	2	35	mg/kg	05.15.19 16:29	
m,p-Xylenes	<0.00102	0.201	0.151	75	0.146	73	70-130	3	35	mg/kg	05.15.19 16:29	
o-Xylene	0.000594	0.100	0.0730	72	0.0733	73	70-130	0	35	mg/kg	05.15.19 16:29	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			101		97		70-130			%	05.15.19 16:29	
4-Bromofluorobenzene			92		101		70-130			%	05.15.19 16:29	

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: 102400

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 (505-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

www.xenco.com Page 1 of 2

Work Order Comments

Program: UST/PST PRP Brownfields RC Superfund

State of Project:

Reporting: Level II Level III DST/UST RRP Level IV

Deliverables: EDD ADA/PT Other: _____

Project Manager:	Chris McKisson	Bill to: (if different)	Chris McKisson
Company Name:	LT Environmental, Inc., Permian office	Company Name:	LT Environmental
Address:	820 Megan Avenue, Unit B	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	(970)285-9985	Email:	l.laumbach@ltenv.com cmckisson@ltenv.com

Project Name: McKittrick 29-22 Turn Around ANALYSIS REQUEST Work Order Notes

Project Number: #### 031819010

Turn Around

Temp Blank: Yes No

Wet Ice: Yes No

Routine

Rush: _____

Due Date: _____

Temperature (°C): 25.04 Thermometer ID: 1e

Received Intact: Yes No

Cooler Custody Seals: Yes No

Sample Custody Seals: Yes No N/A

Correction Factor: 1.0

Total Containers: _____

SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No	Wet Ice:	Yes <input checked="" type="checkbox"/> No	Routine <input checked="" type="checkbox"/>	Rush: _____	Due Date: _____	ANALYSIS REQUEST				Work Order Notes
								Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	
F501	S	05/09/21	8:00	4.5'	1	X	X					
F502	S	1	8:30	5'	1	X	X					
F503	S	9:00	5'	1	X	X	X					
F504	S	9:30	6'	1	X	X	X					
F505	S	10:30	6'	1	X	X	X					
F506	S	11:00	7'	1	X	X	X					
F507	S	11:30	8'	1	X	X	X					
Blw01	S	11:50	0-6'	1	X	X	X					
Blw02	S	12:10	0-5'	1	X	X	X					
Blw03	S	12:30	0-6'	2	X	X	X					

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

Sample Comments

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

Received by OCD: 7/12/2022 8:23:31 AM

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 C	Mall	05/09/21 13:30	P. Bell	5/13/21	
3					
5					



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 05/13/2019 10:50:00 AM

Work Order #: 624024

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

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

Brianna Teel

Date: 05/13/2019

Checklist reviewed by:

Jessica Kramer

Date: 05/13/2019

Analytical Report 626928

for
LT Environmental, Inc.

Project Manager: Chris McKisson

McKittrick 29-22

34819010

30-JUL-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)



30-JUL-19

Project Manager: **Chris McKisson**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **626928**

McKittrick 29-22

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) 626928. 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. 626928 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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

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

Sample Cross Reference 626928

LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	06-05-19 08:15	8 ft	626928-001
FS02	S	06-05-19 08:30	8 ft	626928-002
FS03	S	06-05-19 08:45	8 ft	626928-003
FS04	S	06-05-19 09:00	8 ft	626928-004
SW01	S	06-05-19 09:20	0 - 8 ft	626928-005
SW02	S	06-05-19 09:30	0 - 8 ft	626928-006
SW03	S	06-05-19 09:45	0 - 8 ft	626928-007
SW04	S	06-05-19 10:00	0 - 8 ft	626928-008
SW05	S	06-05-19 10:15	0 - 8 ft	626928-009
SW06	S	06-05-19 10:25	0 - 8 ft	626928-010
SW07	S	06-05-19 10:40	0 - 8 ft	626928-011
SW08	S	06-05-19 10:50	0 - 8 ft	626928-012



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: McKittrick 29-22

Project ID: 34819010
Work Order Number(s): 626928

Report Date: 30-JUL-19
Date Received: 06/07/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3091706 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Samples affected are: 7679506-1-BSD.

Batch: LBA-3092372 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 626928-001 S,626928-001 SD,626928-004,626928-005,626928-007,626928-012,626928-002,626928-003.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id: 34819010
Contact: Chris McKisson
Project Location:

Certificate of Analysis Summary 626928

LT Environmental, Inc., Arvada, CO

Project Name: McKittrick 29-22



Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 30-JUL-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	626928-001	626928-002	626928-003	626928-004	626928-005	626928-006	
	Field Id:	FS01	FS02	FS03	FS04	SW01	SW02	
	Depth:	8- ft	8- ft	8- ft	8- ft	0-8 ft	0-8 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jun-05-19 08:15	Jun-05-19 08:30	Jun-05-19 08:45	Jun-05-19 09:00	Jun-05-19 09:20	Jun-05-19 09:30	
BTEX by EPA 8021B	Extracted:	Jun-13-19 10:00						
	Analyzed:	Jun-13-19 11:48	Jun-13-19 12:07	Jun-13-19 12:26	Jun-13-19 12:42	Jun-13-19 13:04	Jun-13-19 13:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes	<0.00401	0.00401	<0.00399	0.00399	<0.00400	0.00400	<0.00402	0.00402
o-Xylene	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total BTEX	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300	Extracted:	Jun-08-19 16:30						
	Analyzed:	Jun-08-19 20:26	Jun-08-19 20:48	Jun-08-19 20:55	Jun-08-19 21:02	Jun-08-19 21:09	Jun-08-19 21:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride	13.8	4.96	21.4	5.02	16.8	4.96	27.2	4.99
TPH by SW8015 Mod	Extracted:	Jun-08-19 12:00						
	Analyzed:	Jun-09-19 06:56	Jun-09-19 07:26	Jun-09-19 07:50	Jun-09-19 08:14	Jun-09-19 08:39	Jun-09-19 09:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)	25.1	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)	50.6	15.0	53.2	14.9	48.4	15.0	87.3	15.0
Motor Oil Range Hydrocarbons (MRO)	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Total TPH	75.7	15.0	53.2	14.9	48.4	15.0	112	15.0
Total GRO-DRO	75.7	15.0	53.2	14.9	48.4	15.0	87.3	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant



Project Id: 34819010
Contact: Chris McKisson
Project Location:

Certificate of Analysis Summary 626928

LT Environmental, Inc., Arvada, CO

Project Name: McKittrick 29-22



Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 30-JUL-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	626928-007	626928-008	626928-009	626928-010	626928-011	626928-012					
	Field Id:	SW03	SW04	SW05	SW06	SW07	SW08					
	Depth:	0-8 ft										
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL					
	Sampled:	Jun-05-19 09:45	Jun-05-19 10:00	Jun-05-19 10:15	Jun-05-19 10:25	Jun-05-19 10:40	Jun-05-19 10:50					
BTEX by EPA 8021B	Extracted:	Jun-13-19 10:00										
	Analyzed:	Jun-13-19 13:43	Jun-13-19 14:03	Jun-13-19 14:24	Jun-13-19 14:44	Jun-13-19 15:29	Jun-13-19 15:49					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL					
Benzene	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199		
Toluene	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199		
Ethylbenzene	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199		
m,p-Xylenes	<0.00397	0.00397	<0.00402	0.00402	<0.00400	0.00400	<0.00401	0.00401	<0.00397	0.00398		
o-Xylene	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199		
Total Xylenes	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199		
Total BTEX	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199		
Inorganic Anions by EPA 300	Extracted:	Jun-08-19 16:30										
	Analyzed:	Jun-08-19 21:24	Jun-08-19 21:46	Jun-08-19 21:53	Jun-08-19 22:15	Jun-08-19 22:22	Jun-08-19 22:29					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL					
Chloride	18.4	5.02	19.9	4.98	19.0	5.02	19.9	5.01	24.5	4.98	21.1	4.96
TPH by SW8015 Mod	Extracted:	Jun-08-19 12:00	Jun-08-19 12:00	Jun-08-19 12:00	Jun-08-19 12:00	Jun-07-19 16:00	Jun-07-19 16:00					
	Analyzed:	Jun-09-19 09:27	Jun-09-19 09:51	Jun-09-19 10:15	Jun-09-19 10:40	Jun-08-19 10:12	Jun-08-19 10:37					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL					
Gasoline Range Hydrocarbons (GRO)	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)	38.9	15.0	38.2	15.0	49.0	15.0	73.0	15.0	<15.0	15.0		
Motor Oil Range Hydrocarbons (MRO)	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Total TPH	38.9	15.0	38.2	15.0	49.0	15.0	73.0	15.0	<15.0	15.0		
Total GRO-DRO	38.9	15.0	38.2	15.0	49.0	15.0	73.0	15.0	<15.0	15.0		

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XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Jessica Kramer
Project Assistant



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS01**
Lab Sample Id: 626928-001

Matrix: Soil
Date Collected: 06.05.19 08.15

Date Received: 06.07.19 10.46
Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.8	4.96	mg/kg	06.08.19 20.26		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	25.1	15.0	mg/kg	06.09.19 06.56		1
Diesel Range Organics (DRO)	C10C28DRO	50.6	15.0	mg/kg	06.09.19 06.56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.09.19 06.56	U	1
Total TPH	PHC635	75.7	15.0	mg/kg	06.09.19 06.56		1
Total GRO-DRO	PHC628	75.7	15.0	mg/kg	06.09.19 06.56		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	06.09.19 06.56		
o-Terphenyl	84-15-1	104	%	70-135	06.09.19 06.56		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS01**
Lab Sample Id: 626928-001

Matrix: Soil
Date Collected: 06.05.19 08.15

Date Received: 06.07.19 10.46
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.13.19 11.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.13.19 11.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.13.19 11.48	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.13.19 11.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.13.19 11.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.13.19 11.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.13.19 11.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	80	%	70-130	06.13.19 11.48	
1,4-Difluorobenzene		540-36-3	99	%	70-130	06.13.19 11.48	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS02**
Lab Sample Id: 626928-002

Matrix: Soil
Date Collected: 06.05.19 08.30

Date Received: 06.07.19 10.46
Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.4	5.02	mg/kg	06.08.19 20.48		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.09.19 07.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	53.2	14.9	mg/kg	06.09.19 07.26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.09.19 07.26	U	1
Total TPH	PHC635	53.2	14.9	mg/kg	06.09.19 07.26		1
Total GRO-DRO	PHC628	53.2	14.9	mg/kg	06.09.19 07.26		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	06.09.19 07.26		
o-Terphenyl	84-15-1	107	%	70-135	06.09.19 07.26		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS02**
Lab Sample Id: 626928-002

Matrix: Soil
Date Collected: 06.05.19 08.30

Date Received: 06.07.19 10.46
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.14.19 21.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.14.19 21.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.14.19 21.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.14.19 21.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.14.19 21.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.14.19 21.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.14.19 21.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	68	%	70-130	06.13.19 12.07	**
1,4-Difluorobenzene		540-36-3	95	%	70-130	06.13.19 12.07	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS03**
Lab Sample Id: 626928-003

Matrix: Soil
Date Collected: 06.05.19 08.45

Date Received: 06.07.19 10.46
Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.8	4.96	mg/kg	06.08.19 20.55		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.09.19 07.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	48.4	15.0	mg/kg	06.09.19 07.50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.09.19 07.50	U	1
Total TPH	PHC635	48.4	15.0	mg/kg	06.09.19 07.50		1
Total GRO-DRO	PHC628	48.4	15.0	mg/kg	06.09.19 07.50		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-135	06.09.19 07.50		
o-Terphenyl	84-15-1	103	%	70-135	06.09.19 07.50		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: FS03	Matrix: Soil	Date Received: 06.07.19 10.46
Lab Sample Id: 626928-003	Date Collected: 06.05.19 08.45	Sample Depth: 8 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: DVM		% Moisture:
Analyst: DVM	Date Prep: 06.13.19 10.00	Basis: Wet Weight
Seq Number: 3092372		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.14.19 21.26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.14.19 21.26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.14.19 21.26	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.14.19 21.26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.14.19 21.26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.14.19 21.26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.14.19 21.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.13.19 12.26		
4-Bromofluorobenzene	460-00-4	58	%	70-130	06.13.19 12.26	**	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **FS04**
Lab Sample Id: 626928-004

Matrix: Soil
Date Collected: 06.05.19 09.00

Date Received: 06.07.19 10.46
Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.2	4.99	mg/kg	06.08.19 21.02		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.09.19 08.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	112	15.0	mg/kg	06.09.19 08.14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.09.19 08.14	U	1
Total TPH	PHC635	112	15.0	mg/kg	06.09.19 08.14		1
Total GRO-DRO	PHC628	112	15.0	mg/kg	06.09.19 08.14		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	121	%	70-135	06.09.19 08.14		
o-Terphenyl	84-15-1	102	%	70-135	06.09.19 08.14		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: FS04	Matrix: Soil	Date Received: 06.07.19 10.46
Lab Sample Id: 626928-004	Date Collected: 06.05.19 09.00	Sample Depth: 8 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: DVM		% Moisture:
Analyst: DVM	Date Prep: 06.13.19 10.00	Basis: Wet Weight
Seq Number: 3092372		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.14.19 21.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.14.19 21.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.14.19 21.43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.14.19 21.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.14.19 21.43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.14.19 21.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.14.19 21.43	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.13.19 12.42		
4-Bromofluorobenzene	460-00-4	60	%	70-130	06.13.19 12.42	**	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW01**
Lab Sample Id: 626928-005

Matrix: Soil
Date Collected: 06.05.19 09.20

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.8	5.01	mg/kg	06.08.19 21.09		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.09.19 08.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	87.3	15.0	mg/kg	06.09.19 08.39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.09.19 08.39	U	1
Total TPH	PHC635	87.3	15.0	mg/kg	06.09.19 08.39		1
Total GRO-DRO	PHC628	87.3	15.0	mg/kg	06.09.19 08.39		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	06.09.19 08.39		
o-Terphenyl	84-15-1	106	%	70-135	06.09.19 08.39		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW01**
Lab Sample Id: 626928-005

Matrix: Soil
Date Collected: 06.05.19 09.20

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.14.19 22.01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.14.19 22.01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.14.19 22.01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.14.19 22.01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.14.19 22.01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.14.19 22.01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.14.19 22.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	64	%	70-130	06.13.19 13.04	**
1,4-Difluorobenzene		540-36-3	104	%	70-130	06.13.19 13.04	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW02**
Lab Sample Id: 626928-006

Matrix: Soil
Date Collected: 06.05.19 09.30

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.9	5.01	mg/kg	06.08.19 21.17		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.09.19 09.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	37.7	14.9	mg/kg	06.09.19 09.03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.09.19 09.03	U	1
Total TPH	PHC635	37.7	14.9	mg/kg	06.09.19 09.03		1
Total GRO-DRO	PHC628	37.7	14.9	mg/kg	06.09.19 09.03		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	117	%	70-135	06.09.19 09.03		
o-Terphenyl	84-15-1	103	%	70-135	06.09.19 09.03		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW02**
Lab Sample Id: 626928-006

Matrix: Soil
Date Collected: 06.05.19 09.30

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.13.19 13.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.13.19 13.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.13.19 13.23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.13.19 13.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.13.19 13.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.13.19 13.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.13.19 13.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	82	%	70-130	06.13.19 13.23	
1,4-Difluorobenzene		540-36-3	106	%	70-130	06.13.19 13.23	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW03**
Lab Sample Id: 626928-007

Matrix: Soil
Date Collected: 06.05.19 09.45

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.4	5.02	mg/kg	06.08.19 21.24		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.09.19 09.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	38.9	15.0	mg/kg	06.09.19 09.27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.09.19 09.27	U	1
Total TPH	PHC635	38.9	15.0	mg/kg	06.09.19 09.27		1
Total GRO-DRO	PHC628	38.9	15.0	mg/kg	06.09.19 09.27		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	06.09.19 09.27		
o-Terphenyl	84-15-1	94	%	70-135	06.09.19 09.27		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW03**
Lab Sample Id: 626928-007

Matrix: Soil
Date Collected: 06.05.19 09.45

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.14.19 22.18	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.14.19 22.18	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.14.19 22.18	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.14.19 22.18	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.14.19 22.18	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.14.19 22.18	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.14.19 22.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	98	%	70-130	06.13.19 13.43	
4-Bromofluorobenzene		460-00-4	68	%	70-130	06.13.19 13.43	**



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW04**
Lab Sample Id: 626928-008

Matrix: Soil
Date Collected: 06.05.19 10.00

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.9	4.98	mg/kg	06.08.19 21.46		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.09.19 09.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	38.2	15.0	mg/kg	06.09.19 09.51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.09.19 09.51	U	1
Total TPH	PHC635	38.2	15.0	mg/kg	06.09.19 09.51		1
Total GRO-DRO	PHC628	38.2	15.0	mg/kg	06.09.19 09.51		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	06.09.19 09.51		
o-Terphenyl	84-15-1	93	%	70-135	06.09.19 09.51		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW04**
Lab Sample Id: 626928-008

Matrix: Soil
Date Collected: 06.05.19 10.00

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.13.19 14.03	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.13.19 14.03	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.13.19 14.03	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.13.19 14.03	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.13.19 14.03	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.13.19 14.03	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.13.19 14.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	102	%	70-130	06.13.19 14.03	
4-Bromofluorobenzene		460-00-4	81	%	70-130	06.13.19 14.03	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW05**
Lab Sample Id: 626928-009

Matrix: Soil
Date Collected: 06.05.19 10.15

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.0	5.02	mg/kg	06.08.19 21.53		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.09.19 10.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	49.0	15.0	mg/kg	06.09.19 10.15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.09.19 10.15	U	1
Total TPH	PHC635	49.0	15.0	mg/kg	06.09.19 10.15		1
Total GRO-DRO	PHC628	49.0	15.0	mg/kg	06.09.19 10.15		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-135	06.09.19 10.15		
o-Terphenyl	84-15-1	97	%	70-135	06.09.19 10.15		



Certificate of Analytical Results 626928

LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW05**
Lab Sample Id: 626928-009

Matrix: **Soil**
Date Collected: 06.05.19 10.15

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **DVM**
Analyst: **DVM**
Seq Number: 3092372

% Moisture:
Basis: **Wet Weight**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.13.19 14.24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.13.19 14.24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.13.19 14.24	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.13.19 14.24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.13.19 14.24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.13.19 14.24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.13.19 14.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	100	%	70-130	06.13.19 14.24	
4-Bromofluorobenzene		460-00-4	80	%	70-130	06.13.19 14.24	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW06**
Lab Sample Id: 626928-010

Matrix: Soil
Date Collected: 06.05.19 10.25

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.9	5.01	mg/kg	06.08.19 22.15		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.08.19 12.00

Basis: Wet Weight

Seq Number: 3091706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.09.19 10.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	73.0	15.0	mg/kg	06.09.19 10.40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.09.19 10.40	U	1
Total TPH	PHC635	73.0	15.0	mg/kg	06.09.19 10.40		1
Total GRO-DRO	PHC628	73.0	15.0	mg/kg	06.09.19 10.40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-135	06.09.19 10.40		
o-Terphenyl	84-15-1	109	%	70-135	06.09.19 10.40		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW06**
Lab Sample Id: 626928-010

Matrix: Soil
Date Collected: 06.05.19 10.25

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.13.19 14.44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.13.19 14.44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.13.19 14.44	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.13.19 14.44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.13.19 14.44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.13.19 14.44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.13.19 14.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	95	%	70-130	06.13.19 14.44	
4-Bromofluorobenzene		460-00-4	71	%	70-130	06.13.19 14.44	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW07**
Lab Sample Id: 626928-011

Matrix: Soil
Date Collected: 06.05.19 10.40

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.5	4.98	mg/kg	06.08.19 22.22		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091704

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.08.19 10.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.08.19 10.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.08.19 10.12	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.08.19 10.12	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.08.19 10.12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	06.08.19 10.12		
o-Terphenyl	84-15-1	87	%	70-135	06.08.19 10.12		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW07**
Lab Sample Id: 626928-011

Matrix: Soil
Date Collected: 06.05.19 10.40

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.13.19 15.29	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.13.19 15.29	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.13.19 15.29	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.13.19 15.29	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.13.19 15.29	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.13.19 15.29	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.13.19 15.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	90	%	70-130	06.13.19 15.29	
4-Bromofluorobenzene		460-00-4	84	%	70-130	06.13.19 15.29	



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW08**
Lab Sample Id: 626928-012

Matrix: Soil
Date Collected: 06.05.19 10.50

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 16.30

Basis: Wet Weight

Seq Number: 3091696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.1	4.96	mg/kg	06.08.19 22.29		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091704

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.08.19 10.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.08.19 10.37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.08.19 10.37	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.08.19 10.37	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.08.19 10.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	06.08.19 10.37		
o-Terphenyl	84-15-1	79	%	70-135	06.08.19 10.37		



Certificate of Analytical Results 626928



LT Environmental, Inc., Arvada, CO

McKittrick 29-22

Sample Id: **SW08**
Lab Sample Id: 626928-012

Matrix: Soil
Date Collected: 06.05.19 10.50

Date Received: 06.07.19 10.46
Sample Depth: 0 - 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: DVM

Date Prep: 06.13.19 10.00

Basis: Wet Weight

Seq Number: 3092372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.14.19 22.35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.14.19 22.35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.14.19 22.35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.14.19 22.35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.14.19 22.35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.14.19 22.35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.14.19 22.35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	69	%	70-130	06.13.19 15.49	**
1,4-Difluorobenzene		540-36-3	92	%	70-130	06.13.19 15.49	



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

LT Environmental, Inc.

McKittrick 29-22

Analytical Method: Inorganic Anions by EPA 300

Seq Number:	3091696	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7679541-1-BLK	LCS Sample Id: 7679541-1-BKS				Date Prep: 06.08.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	243	97	243	97	90-110	0	20
								mg/kg	Analysis Date
									Flag

Analytical Method: Inorganic Anions by EPA 300

Seq Number:	3091696	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	626902-002	MS Sample Id: 626902-002 S				Date Prep: 06.08.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	101	252	350	99	350	99	90-110	0	20
								mg/kg	Analysis Date
									Flag

Analytical Method: Inorganic Anions by EPA 300

Seq Number:	3091696	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	626928-007	MS Sample Id: 626928-007 S				Date Prep: 06.08.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	18.4	251	281	105	281	105	90-110	0	20
								mg/kg	Analysis Date
									Flag

Analytical Method: TPH by SW8015 Mod

Seq Number:	3091704	Matrix: Solid				Prep Method: TX1005P			
MB Sample Id:	7679504-1-BLK	LCS Sample Id: 7679504-1-BKS				Date Prep: 06.07.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	10.7	1000	1190	119	1190	119	70-135	0	20
Diesel Range Organics (DRO)	<8.13	1000	1160	116	1190	119	70-135	3	20
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		120		120		70-135	%	06.08.19 00:41
o-Terphenyl	94		121		111		70-135	%	06.08.19 00:41

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

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

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

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

LT Environmental, Inc.

McKittrick 29-22

Analytical Method: TPH by SW8015 Mod

Seq Number:	3091706	Matrix: Solid				Prep Method: TX1005P			
MB Sample Id:	7679506-1-BLK	LCS Sample Id: 7679506-1-BKS				Date Prep: 06.08.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1110	111	1110	111	70-135	0	20
Diesel Range Organics (DRO)	<8.13	1000	1090	109	1230	123	70-135	12	20
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		104		115		70-135	%	06.09.19 00:51
o-Terphenyl	113		97		136	**	70-135	%	06.09.19 00:51

Analytical Method: TPH by SW8015 Mod

Seq Number:	3091704	Matrix: Soil				Prep Method: TX1005P			
Parent Sample Id:	626933-005	MS Sample Id: 626933-005 S				Date Prep: 06.07.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	13.6	997	1160	115	1200	119	70-135	3	20
Diesel Range Organics (DRO)	8.96	997	1110	110	1150	114	70-135	4	20
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane			116		119		70-135	%	06.08.19 01:56
o-Terphenyl			111		113		70-135	%	06.08.19 01:56

Analytical Method: TPH by SW8015 Mod

Seq Number:	3091706	Matrix: Soil				Prep Method: TX1005P			
Parent Sample Id:	626929-021	MS Sample Id: 626929-021 S				Date Prep: 06.08.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	11.0	998	1110	110	1080	107	70-135	3	20
Diesel Range Organics (DRO)	<8.11	998	1140	114	1050	105	70-135	8	20
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane			115		108		70-135	%	06.09.19 02:04
o-Terphenyl			113		101		70-135	%	06.09.19 02:04

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 626928

LT Environmental, Inc.

McKittrick 29-22

Analytical Method: BTEX by EPA 8021B

Seq Number:	3092372	Matrix: Solid				Prep Method: SW5030B			
MB Sample Id:	7679938-1-BLK	LCS Sample Id: 7679938-1-BKS				Date Prep: 06.13.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Limit	Units Analysis Date Flag
Benzene	0.00139	0.100	0.0893	89	0.0809	81	70-130	10 35	mg/kg 06.13.19 09:52
Toluene	<0.00200	0.100	0.0861	86	0.0933	93	70-130	8 35	mg/kg 06.13.19 09:52
Ethylbenzene	0.00114	0.100	0.0948	95	0.107	107	70-130	12 35	mg/kg 06.13.19 09:52
m,p-Xylenes	0.00186	0.200	0.197	99	0.225	113	70-130	13 35	mg/kg 06.13.19 09:52
o-Xylene	<0.00200	0.100	0.0959	96	0.117	117	70-130	20 35	mg/kg 06.13.19 09:52
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		101		95		70-130	%	06.13.19 09:52
4-Bromofluorobenzene	77		95		80		70-130	%	06.13.19 09:52

Analytical Method: BTEX by EPA 8021B

Seq Number:	3092372	Matrix: Soil				Prep Method: SW5030B			
Parent Sample Id:	626928-001	MS Sample Id: 626928-001 S				Date Prep: 06.13.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Limit	Units Analysis Date Flag
Benzene	<0.000386	0.100	0.0881	88	0.0769	76	70-130	14 35	mg/kg 06.13.19 10:30
Toluene	<0.00201	0.100	0.0940	94	0.0791	78	70-130	17 35	mg/kg 06.13.19 10:30
Ethylbenzene	<0.00201	0.100	0.100	100	0.0831	82	70-130	18 35	mg/kg 06.13.19 10:30
m,p-Xylenes	<0.00402	0.201	0.197	98	0.164	82	70-130	18 35	mg/kg 06.13.19 10:30
o-Xylene	<0.00201	0.100	0.0970	97	0.0840	83	70-130	14 35	mg/kg 06.13.19 10:30
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene			105		109		70-130	%	06.13.19 10:30
4-Bromofluorobenzene			63	**	66	**	70-130	%	06.13.19 10:30

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



Chain of Custody

Work Order No:

Bengal

Received by OCD: 7/12/2022 8:23:31 AM

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 569-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 774-1296

Project Manager:	Chris McKisson	Bill to: (if different)	Chris McKisson
Company Name:	L T Environmental, Inc., Permian office	Company Name:	L T Environmental, Inc.
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(970)620-5743	Email:	lbaumach@ltenv.com, cmckisson@ltenv.com, asmith@ltenv.com

6-20-2000)		www.xenco.com	Page	/	of
Work Order Comments					
Program: UST/PST	<input type="checkbox"/> RP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RC	<input type="checkbox"/> Superfund	<input type="checkbox"/>
State of Project:					
Reporting: Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RP	<input type="checkbox"/> Level IV	<input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:	

Project Name:		McKittrick 29-22		Turn Around		ANALYSIS REQUEST		Work Order Notes	
Project Number:		34819010		Routine					
P.O. Number:		2RP-4121		Rush:					
Sampler's Name:		Lynda Laumbach		Due Date:					
SAMPLE RECEIPT		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Temperature (°C):		05 (C)	Thermometer						
Received Intact:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Cooler Custody Seals:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:		TQ				
Sample Custody Seals:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Total Containers:						
Number of Containers									
EPA 8015)									
EPA 0=8021)									
EPA 300.0)									
TAT starts the day received by the lab, if received by 4:30pm									

Total	200.7 / 6010	200.8 / 6020:	8RCRA 132PM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti 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 Ti U		
			1631 / 245.1 / 7470 / 7471 : Hg
<p>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.</p>			
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)
1 		3/6/05 15:10	2
3 			4
5 			6

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.



Chain of Custody

Work Order No: 16 H930

Received by OCD: 7/12/2022 8:23:31 AM

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 06/07/2019 10:46:00 AM

Work Order #: 626928

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

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

Brianna Teel

Date: 06/07/2019

Checklist reviewed by:

Jessica Kramer

Date: 06/07/2019

Analytical Report 630699

for
LT Environmental, Inc.

Project Manager: Chris McKisson

Mckittrick 29-22

34819010

22-JUL-19

Collected By: Client



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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)



22-JUL-19

Project Manager: **Chris McKisson**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **630699**

Mckittrick 29-22

Project Address: Delaware Basin

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) 630699. 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. 630699 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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

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

**Sample Cross Reference 630699****LT Environmental, Inc., Arvada, CO**

Mckittrick 29-22

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS05	S	07-12-19 05:45	8 ft	630699-001



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: McKittrick 29-22

Project ID: 34819010

Work Order Number(s): 630699

Report Date: 22-JUL-19

Date Received: 07/12/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3095558 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 630494-005 S.

Batch: LBA-3096052 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 630699-001.



Certificate of Analysis Summary 630699

Page 100 of 110

LT Environmental, Inc., Arvada, CO

Project Name: Mckittrick 29-22

Project Id: 34819010
Contact: Chris McKisson
Project Location: Delaware Basin

Date Received in Lab: Fri Jul-12-19 09:05 am
Report Date: 22-JUL-19
Project Manager: Jessica Kramer

Analysis Requested		Lab Id: 630699-001					
		Field Id: FS05					
		Depth: 8- ft					
		Matrix: SOIL					
		Sampled: Jul-12-19 05:45					
BTEX by EPA 8021B SUB: T104704400-18-16		Extracted: Jul-15-19 13:42					
		Analyzed: Jul-17-19 01:22					
		Units/RL: mg/kg RL					
Benzene		<0.00198	0.00198				
Toluene		<0.00198	0.00198				
Ethylbenzene		<0.00198	0.00198				
m,p-Xylenes		<0.00396	0.00396				
o-Xylene		<0.00198	0.00198				
Total Xylenes		<0.00198	0.00198				
Total BTEX		<0.00198	0.00198				
Chloride by EPA 300 SUB: T104704400-18-16		Extracted: Jul-15-19 15:50					
		Analyzed: Jul-15-19 17:12					
		Units/RL: mg/kg RL					
Chloride		<5.04	5.04				
TPH by SW8015 Mod SUB: T104704400-18-16		Extracted: Jul-21-19 09:00					
		Analyzed: Jul-21-19 22:36					
		Units/RL: mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0				
Total TPH		<15.0	15.0				
Total GRO-DRO		<15.0	15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant



Certificate of Analytical Results 630699

LT Environmental, Inc., Arvada, CO

Mckittrick 29-22

Sample Id: **FS05**
Lab Sample Id: 630699-001

Matrix: Soil
Date Collected: 07.12.19 05.45

Date Received: 07.12.19 09.05
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.15.19 15.50

Basis: Wet Weight

Seq Number: 3095383

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	07.15.19 17.12	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.21.19 09.00

Basis: Wet Weight

Seq Number: 3096052

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.21.19 22.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.21.19 22.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.21.19 22.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.21.19 22.36	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	07.21.19 22.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	07.21.19 22.36		
o-Terphenyl	84-15-1	62	%	70-135	07.21.19 22.36	**	



Certificate of Analytical Results 630699

LT Environmental, Inc., Arvada, CO

Mckittrick 29-22

Sample Id: **FS05**
Lab Sample Id: 630699-001

Matrix: Soil
Date Collected: 07.12.19 05.45

Date Received: 07.12.19 09.05
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALG

% Moisture:

Analyst: FOV

Date Prep: 07.15.19 13.42

Basis: Wet Weight

Seq Number: 3095558

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.17.19 01.22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.17.19 01.22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.17.19 01.22	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	07.17.19 01.22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.17.19 01.22	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.17.19 01.22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.17.19 01.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	97	%	70-130	07.17.19 01.22	
4-Bromofluorobenzene		460-00-4	110	%	70-130	07.17.19 01.22	



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

LT Environmental, Inc.

Mckittrick 29-22

Analytical Method: Chloride by EPA 300

Seq Number:	3095383	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7682059-1-BLK	LCS Sample Id: 7682059-1-BKS				Date Prep: 07.15.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	237	95	235	94	90-110	1	20
							mg/kg	Analysis Date 07.15.19 15:55	

Analytical Method: Chloride by EPA 300

Seq Number:	3095383	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	630699-001	MS Sample Id: 630699-001 S				Date Prep: 07.15.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.04	252	249	99	248	98	90-110	0	20
							mg/kg	Analysis Date 07.15.19 17:17	

Analytical Method: Chloride by EPA 300

Seq Number:	3095383	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	630821-001	MS Sample Id: 630821-001 S				Date Prep: 07.15.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	11.5	250	259	99	259	99	90-110	0	20
							mg/kg	Analysis Date 07.15.19 16:09	

Analytical Method: TPH by SW8015 Mod

Seq Number:	3096052	Matrix: Solid				Prep Method: TX1005P			
MB Sample Id:	7682451-1-BLK	LCS Sample Id: 7682451-1-BKS				Date Prep: 07.21.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1140	114	1140	114	70-135	0	20
Diesel Range Organics (DRO)	<15.0	1000	1100	110	1160	116	70-135	5	20
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		101		113		70-135	%	07.21.19 21:49
o-Terphenyl	83		79		93		70-135	%	07.21.19 21:49

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

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

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

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

LT Environmental, Inc.

Mckittrick 29-22

Analytical Method: TPH by SW8015 Mod

Seq Number:	3096052	Matrix: Soil				Prep Method: TX1005P			
Parent Sample Id:	630699-001	MS Sample Id: 630699-001 S				Date Prep: 07.21.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	11.0	997	1030	102	1010	100	70-135	2	20
Diesel Range Organics (DRO)	10.1	997	990	98	967	96	70-135	2	20
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane			93		90		70-135	%	07.21.19 23:00
o-Terphenyl			71		71		70-135	%	07.21.19 23:00

Analytical Method: BTEX by EPA 8021B

Seq Number:	3095558	Matrix: Solid				Prep Method: SW5030B			
MB Sample Id:	7682046-1-BLK	LCS Sample Id: 7682046-1-BKS				Date Prep: 07.15.19			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Benzene	<0.00200	0.100	0.0871	87	0.0967	97	70-130	10	35
Toluene	<0.00200	0.100	0.0863	86	0.0914	91	70-130	6	35
Ethylbenzene	<0.00200	0.100	0.0962	96	0.0999	100	70-130	4	35
m,p-Xylenes	<0.00400	0.200	0.193	97	0.202	101	70-130	5	35
o-Xylene	<0.00200	0.100	0.0925	93	0.0983	98	70-130	6	35
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		94		97		70-130	%	07.16.19 08:21
4-Bromofluorobenzene	99		105		116		70-130	%	07.16.19 08:21

Analytical Method: BTEX by EPA 8021B

Seq Number:	3095558	Matrix: Sludge				Prep Method: SW5030B			
Parent Sample Id:	630494-005	MS Sample Id: 630494-005 S				Date Prep: 07.15.19			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Benzene	0.000620	0.100	0.0612	61	0.0612	61	70-130	0	35
Toluene	0.0113	0.100	0.0671	56	0.0606	49	70-130	10	35
Ethylbenzene	0.0107	0.100	0.0655	55	0.0545	44	70-130	18	35
m,p-Xylenes	0.0261	0.201	0.183	78	0.138	56	70-130	28	35
o-Xylene	0.0119	0.100	0.0583	46	0.0421	30	70-130	32	35
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene			89		92		70-130	%	07.16.19 12:49
4-Bromofluorobenzene			142	**	126		70-130	%	07.16.19 12:49

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

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

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

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



Chain of Custody

Work Order No: 123D045

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

Project Manager:	Chris McKisson	Bill to: (if different)	Kyle Litrell
Company Name:	LT Environmental, Inc.	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	(970) 285-9985	Email:	ltaumbach@ltenv.com , cmckisson@ltenv.com , asmith@ltenv.com

Work Order Comments					
Program: UST/PST	<input type="checkbox"/> RRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RC	<input type="checkbox"/> Superfund	<input type="checkbox"/>
State of Project:					
Reporting: Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> P/T/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV	<input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:	<input type="checkbox"/>

Received by OCD: 7/12/2022 8:23:31 AM

Received by OCL *11/24/2011*

ice: Signature of this document and relinquishment of samples
service. Xencor will be liable only for the cost of samples and ser-
vence. A minimum charge of \$75.00 will be applied to each pro-

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

Relinquished by: (Signature)	Received by:
-------------------------------------	---------------------

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	
<p>constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions all 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, but not analyzed. These terms will be enforced unless previously negotiated.</p>			
Lived by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)
	07/12/19 8:55		07/12/19
	4		7/12/19 09:05
	6		

1

Page 11 of 14

Final 1 000

Inter-Office Shipment

Page 1 of 1

IOS Number 43342

Date/Time: 07/12/19 10:54

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
630699-001	S	FS05	07/12/19 05:45	SW8015MOD_NM	TPH by SW8015 Mod	07/18/19	07/26/19	JKR	GRO-DRO PHCC10C28 PI	
630699-001	S	FS05	07/12/19 05:45	SW8021B	BTEX by EPA 8021B	07/18/19	07/26/19	JKR	BR4FBZ BZ BZME EBZ X	
630699-001	S	FS05	07/12/19 05:45	E300_CL	Chloride by EPA 300	07/18/19	01/08/20	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By:



Elizabeth McClellan

Date Relinquished: 07/12/2019

Received By:



Brianna Teel

Date Received: 07/15/2019 07:42Cooler Temperature: 4.0

Inter Office Report- Sample Receipt Checklist**Sent To:** Midland**Acceptable Temperature Range:** 0 - 6 degC**IOS #:** 43342**Air and Metal samples Acceptable Range:** Ambient**Temperature Measuring device used :** R8**Sent By:** Elizabeth McClellan**Date Sent:** 07/12/2019 10:54 AM**Received By:** Brianna Teel**Date Received:** 07/15/2019 07:42 AM

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

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

NonConformance:**Corrective Action Taken:****Nonconformance Documentation****Contact:** _____**Contacted by :** _____**Date:** _____**Checklist reviewed by:**

 Brianna Teel

Date: 07/15/2019



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 07/12/2019 05:45:00 AM

Work Order #: 630699

Acceptable Temperature Range: 0 - 6 degC
 Air and Metal samples Acceptable Range: Ambient
 Temperature Measuring device used : T-NM-007

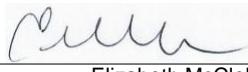
Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6* Custody Seals Signed and dated?	N/A
#7 *Chain of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

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

Analyst:

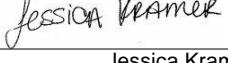
PH Device/Lot#:

Checklist completed by:


Elizabeth McClellan

Date: 07/12/2019

Checklist reviewed by:


Jessica Kramer

Date: 07/16/2019

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 124420

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 124420
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/14/2022