A proud member of WSP

LT Environmental, Inc.

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

February 21, 2020

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

RE: Closure Request

Corral Canyon Fed #4H

Remediation Permit Number 2RP-3713

Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request report detailing site assessment, soil sampling, and excavation activities at the Corral Canyon Fed #4H (Site) in Unit P, Section 5, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil after a natural gas fire and release of crude oil and produced water at the Site.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the New Mexico Oil Conservation Division (NMOCD) effective November 13, 2018. The purpose of the Compliance Agreement is to ensure reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018. The release is categorized as a Tier IV site in the Compliance Agreement, meaning the release occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation was ongoing. Based on the site assessment activities and results of the soil sampling events, XTO is requesting no further action for this release.

RELEASE BACKGROUND

On May 21, 2016, a connection on the wellhead failed, causing natural gas, crude oil, and produced water to release. Approximately 1,552 mcf of natural gas were released; a spark caused the natural gas to ignite. Due to the fire, the volume of crude oil and produced water released could not be gauged. The release affected the well pad area surrounding the wellhead. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on June 2, 2016, and was assigned Remediation Permit (RP) Number 2RP-3713 (Attachment 1).





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SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest water well data. The closest permitted water well with depth to water data is New Mexico Office of the State Engineer (NM OSE) well #RA7162, located approximately 6,500 feet southeast of the Site. The water well has a depth to groundwater of approximately 40 feet bgs and a total depth of 55 feet bgs. However, as part of remediation efforts at a nearby site, Corral Canyon #1H flow line (2RP-5201), LTE installed six monitoring wells (MW01 through MW06) to assess depth to groundwater. The groundwater monitoring wells are located approximately 779 feet southeast of the Site. Static water level measured in monitoring wells MW01 through MW06 on September 13, 2019, ranged from 57.26 feet bgs in monitoring well MW04 to 62.29 feet bgs in monitoring well MW02 with an average depth to water of 58.80 feet bgs. The depth to water measurements are provided in the table below and the location of the monitoring wells is identified on Figure 1.

MONITORING WELL INFORMATION

Sample Name	Total Depth	Depth to Water	Sample Date
	(feet bgs)	(feet bgs)	
MW01	68.44	58.17	09/13/2019
MW02	68.10	62.29	09/13/2019
MW03	75.58	58.30	09/13/2019
MW04	69.08	57.26	09/13/2019
MW05	64.80	58.54	09/13/2019
MW06	64.11	58.25	09/13/2019

Notes:

bgs – below ground surface

Based on depth to water measured recently in the nearby monitoring wells, depth to water at the Site is estimated to be between 51 and 100 feet bgs. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash, located approximately 1,650 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a medium-potential karst area.

CLOSURE CRITERIA

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



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

SITE ASSESSMENT, EXCAVATION, AND DELINEATION SOIL SAMPLING ACTIVITIES

During June 2016, excavation of impacted soil was directed by Environmental Plus, Inc. (EPI), an environmental consulting firm that is no longer in operation. The available documentation from June 2016 is provided in Attachment 2. Documentation includes site photographs, a release map, correspondence with NMOCD, and soil sample laboratory analytical results. Based on the laboratory analytical results for soil samples collected by EPI in June 2016, the depth of soil impacts did not extend past 1 foot bgs. EPI indicated that the release area surrounding the wellhead was excavated to a depth of 1 foot bgs, and the remaining release area was scraped to a depth of 0.5 feet bgs. Due to the absence of confirmation soil sampling records from the June 2016 excavation activities, LTE personnel conducted additional site assessment and soil sampling activities to confirm that the Closure Criteria requirements were met.

On October 29, 2019, LTE personnel was at the Site to complete site assessment activities. Potholes were advanced via backhoe within and around the documented release area to assess for the presence or absence of impacted soil. Potholes PH01 through PH09 were advanced to a depth of 2 feet bgs. Two delineation soil samples were collected from each pothole from depths from 0.5 feet and 2 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil sample locations are depicted on Figure 2.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (USEPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0. Based on laboratory analytical results for the delineation soil samples, excavation of impacted soil was required in the area around pothole PH02.

On November 12, 2019, LTE personnel returned to the Site to oversee excavation of impacted soil as indicated by field screening activities and laboratory analytical results for the delineation



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soil samples. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Impacted soil was excavated to a depth of 2 feet bgs in the area around pothole PH02. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the sidewalls and floors of the excavations. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil sample SW01 was collected from the sidewalls of the excavation from a depth of 0.5 feet to 2 feet bgs. Composite soil sample FS01 was collected from the floor of the excavation from a depth of 2 feet bgs. The excavation extent and excavation soil sample locations are depicted on Figure 3. The excavation soil samples were collected, handled, and analyzed as described above and submitted to Xenco. Photographic documentation was conducted during the Site visits. Photographs are included in Attachment 4.

The excavation measured approximately 150 square feet in area and was completed to a depth of 2 feet bgs. A total of approximately 15 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the R360 Landfill located in Hobbs, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples, collected from potholes PH01 and PH03 through PH09 indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation soil sample PH02, collected at a depth of 0.5 feet bgs, indicated that GRO/DRO and TPH concentrations exceeded the Closure Criteria. Subsequent delineation soil sample PH02A, collected at a depth of 2 feet bgs, was compliant with the Closure Criteria. Impacted soil was excavated from the area around pothole PH02. Laboratory analytical results for excavation soil samples SW01 and FS01 indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 5.

CLOSURE REQUEST

Impacted soil was excavated from the Site during June 2016 to address the May 21, 2016, release of crude oil and produced water at the Site. Due to the absence of soil sample analytical results from the June 2016 excavation, site assessment activities were completed in October 2019 to confirm the removal of impacted soil. Nine potholes (PH01 through PH09) were advanced within the release extent to assess for the presence or absence of impacted soil. Based on the soil sample laboratory analytical results from the site assessment activities, impacted soil was excavated from the area around pothole PH02. Laboratory analytical results for the excavation soil samples indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the delineation soil samples collected



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from potholes PH01 and PH03 through PH09, indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the excavation and delineation soil sample analytical results, no further remediation was required.

Initial response efforts, natural attenuation, and excavation of impacted soil have mitigated impacts at this Site. XTO requests no further action for RP Number 2RP-3713. XTO backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. An updated NMOCD Form C-141 is included in Attachment 1.

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

Ashley L. Ager

Ashley L. Ager, P.G.

Senior Geologist

Sincerely,

LT ENVIRONMENTAL, INC.

Sinée Cole

Aimee Cole

Project Environmental Scientist

cc: Kyle Littrell, XTO

Bureau of Land Management Mike Bratcher, NMOCD

Attachments:

Figure 1 Site Location Map

Figure 2 Excavation Soil Sample Locations
Figure 3 Delineation Soil Sample Locations

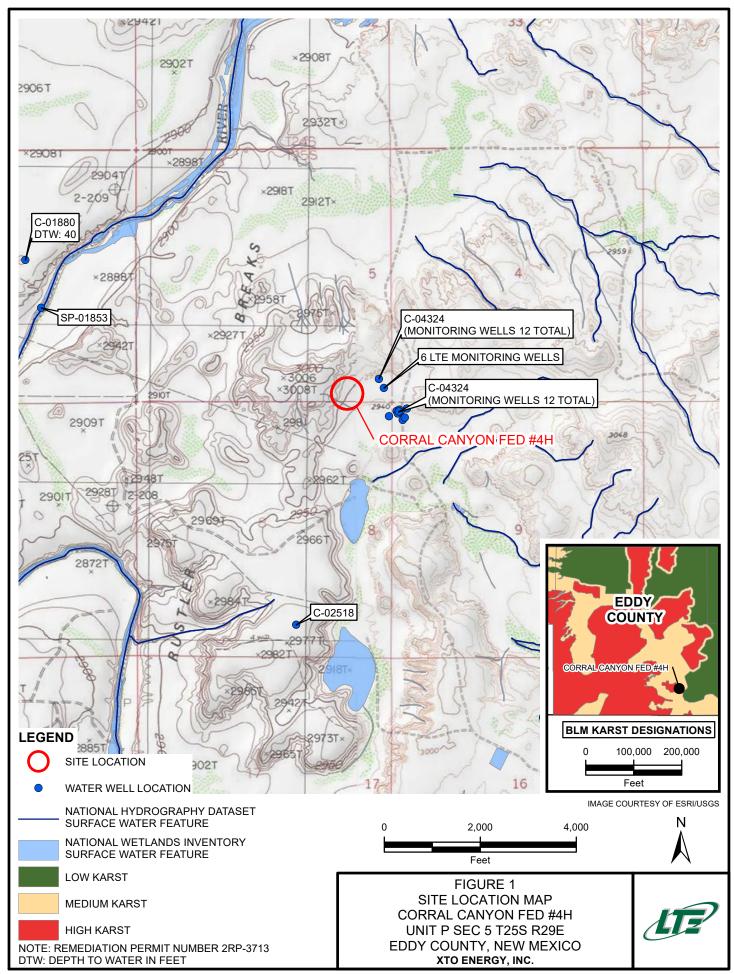
Table 1 Soil Analytical Results

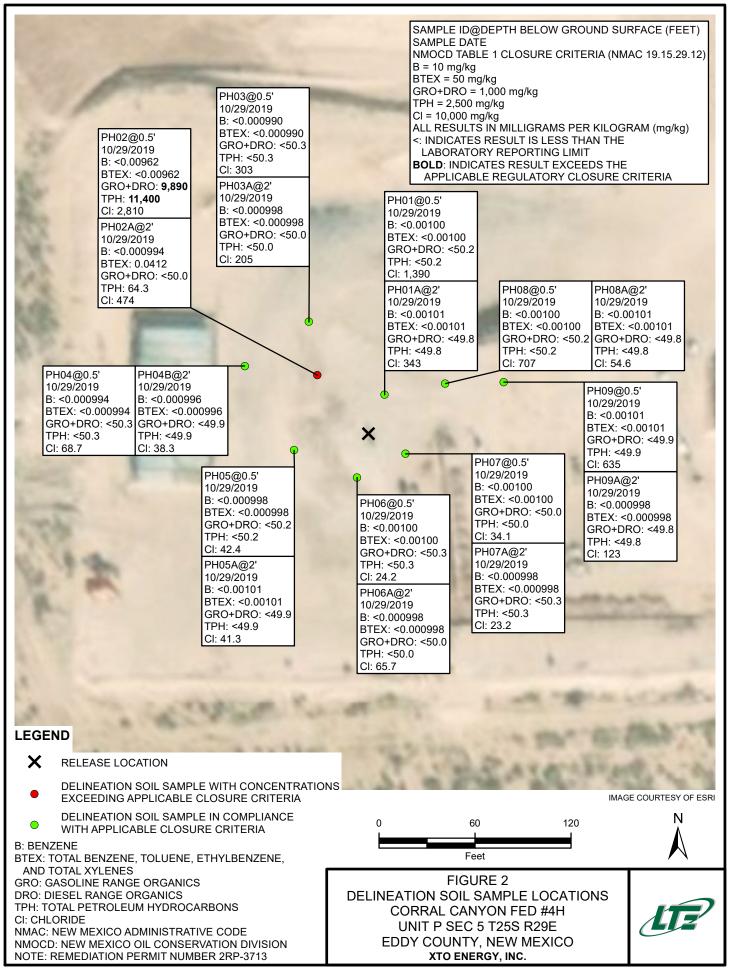
Attachment 1 Initial/Final NMOCD Form C-141 (2RP-3713)

Attachment 2 Historical Documentation Attachment 3 Lithologic / Soil Sample Logs

Attachment 4 Photographic Log

Attachment 5 Laboratory Analytical Reports





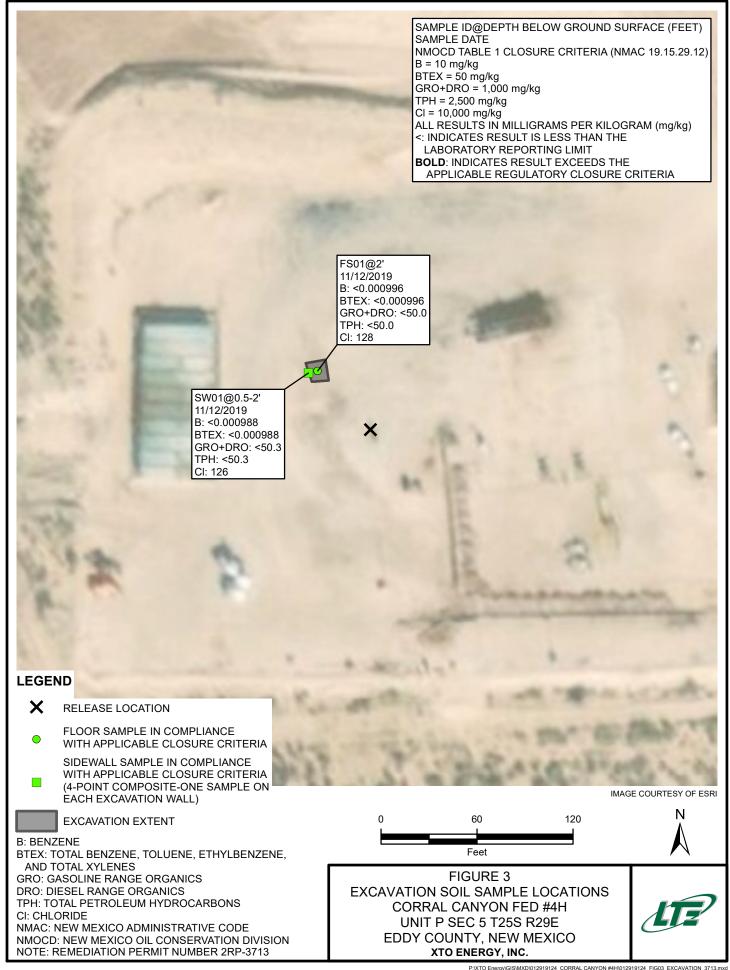




TABLE 1 SOIL ANALYTICAL RESULTS

CORRAL CANYON FED #4H REMEDIATION PERMIT NUMBER 2RP-3713 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
PH01	0.5	10/29/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	1,390
PH01A	2	10/29/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<49.8	<49.8	<49.8	<49.8	<49.8	343
PH02	0.5	10/29/2019	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<251	9,890	1,460	9,890	11,400	2,810
PH02A	2	10/29/2019	<0.000994	<0.000994	<0.000994	0.0412	0.0412	<50.0	<50.0	64.3	<50.0	64.3	474
PH03	0.5	10/29/2019	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	<50.3	<50.3	<50.3	<50.3	<50.3	303
PH03A	1	10/29/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.0	<50.0	<50.0	<50.0	<50.0	205
PH03B	2	10/29/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	<50.2	<50.2	<50.2	<50.2	531
PH04	0.5	10/29/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.3	<50.3	<50.3	<50.3	<50.3	68.7
PH04B	2	10/29/2019	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	<49.9	<49.9	<49.9	<49.9	<49.9	38.3
PH05	0.5	10/29/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.2	<50.2	<50.2	<50.2	<50.2	42.4
PH05A	2	10/29/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<49.9	<49.9	<49.9	<49.9	<49.9	41.3
PH06	0.5	10/29/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.3	<50.3	<50.3	<50.3	<50.3	24.2
PH06A	2	10/29/2019	<0.000988	<0.000988	<0.000988	<0.000988	<0.000988	<50.0	<50.0	<50.0	<50.0	<50.0	65.7
PH07	0.5	10/29/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.0	<50.0	<50.0	<50.0	<50.0	34.1
PH07A	2	10/29/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.3	<50.3	<50.3	<50.3	<50.3	23.2
PH08	0.5	10/29/2019	< 0.00100	< 0.00100	< 0.00100	< 0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	707
PH08A	2	10/29/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<49.8	<49.8	<49.8	<49.8	<49.8	54.6
PH09	0.5	10/29/2019	< 0.00101	< 0.00101	< 0.00101	< 0.00101	< 0.00101	<49.9	<49.9	<49.9	<49.9	<49.9	635
PH09A	2	10/29/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<49.8	<49.8	<49.8	<49.8	<49.8	123
SW01	0.5 - 2	11/12/2019	<0.000988	<0.000988	<0.000988	<0.000988	<0.000988	<50.3	<50.3	<50.3	<50.3	<50.3	126
FS01	2	11/12/2019	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	<50.0	<50.0	<50.0	<50.0	<50.0	128
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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

Received by OCD: 4/8/2020 2:59:26 PM

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Received 6/2/2016 NMOCD Artesia

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

Name of Company XTO Energy, Inc. 5380 Address 500 W. Illinois, Suite 100, Midland, TX 79701 Facility Name Corral Canyon Fed #4 H Surface Owner BLM Mineral Owner BLM / NMSLO API No. 30-015-42923	Final Report		
Facility Name Corral Canyon Fed #4 H Facility Type Well			
Surface Ourses DIM Minus I On DIM / DRIGITO			
Surface Owner BLM Mineral Owner BLM / NMSLO API No. 30-015-42923			
LOCATION OF RELEASE			
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County			
P 5 T25S R29E 200 South 760 East Eddy			
Latitude 32.152346'NLongitude_104.000009'W			
NATURE OF RELEASE			
Type of Release Wellhead Fire Oil, Produced Water and Natural Gas Volume of Release 1552 mcf. Due to fire we were not able to gauge fluids.			
Source of Release Wellhead Date and Hour of Occurrence Date and Hour of Discovery			
5-21-16 4:00 am 5-21-16 4:00 am Was Immediate Notice Given? If YES, To Whom?			
X Yes No Not Required Jim Amos BLM, Heather Patterson OCD			
By Whom? John Robinson Date and Hour 5-21-16 11:00 am			
Was a Watercourse Reached? Yes X No If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken.*	AND THE RESERVE OF THE PARTY OF		
Connection on wellhead failed and caused a leak. Something sparked and caught natural gas on fire. Once fire was out we sprayed overspray	area with		
micro blaze and will clean up rest of contamination asap.			
Describe Area Affected and Cleanup Action Taken.*			
Fire was contained to wellhead area. Will take samples from contaminated area and clean up contaminated soil and replace with clean soil.			
I have by contify that the information gives above it to add to the body of th	, , ,		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may en	iles and idanger		
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, hu or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any			
federal, state, or local laws and/or regulations.	other		
OIL CONSERVATION DIVISION	OIL CONSERVATION DIVISION		
Signature: July Melin			
Printed Name: John Robinson Approved by Environmental Specialist:			
Title: Maintenance Foreman Approval Date: 6/3/2016 Expiration Date: N/A			
Conditions of Americal			
E-mail Address: john robinson@xtoenergy.com Conditions of Approval: Remediation per OCD Rules and Guidelines Only 18 Phone: 575-441-5199			
Vilhmit Domodiation Droposal No Lator			
Attach Additional Sheets If Necessary Than 7/3/2016 2R	P-3713		

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

Responsible Party: XTO Energy, Inc

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	
Facility ID	2RP-3713
Application ID	

Release Notification

Responsible Party

OGRID: 5380

Contact Name: Kyle Littrell			Con	Contact Telephone: (432)-221-7331			
Contact email: Kyle_Littrell@xtoenergy.com			Inci	Incident #: 2RP-3713			
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220							
			Lagation	of Doloo	C.	0.111100	
			Location	of Kelea	ise 50	ource	
Latitude N 32	2.152346					W -104.000009	
			(NAD 83 in dec	cimal degrees to	5 decim	nal places)	
Site Name: C	orral Canyo	n Fed #4H		Site	Type:	Production Facility	
Date Release	Discovered:	5/21/2016		API	# (if app	plicable): 30-015-42923	
II. 't I . tt	G	T 1.1.	D	<u>'</u>	C		
Unit Letter P	Section 5	Township 25S	Range 29E		Coun	<u> </u>	
Γ	3	233	2915		Edd	19	
Surface Owner	r: State	⊠ Federal □ Tr	ibal Private (A	Vame:)	
Surface 6 when	i State	Z rederar Z ri		<i></i>			
			Nature and	l Volum	e of I	Release	
	Material	(s) Released (Select al	l that apply and attach	calculations or	specific	e justification for the volumes provided below)	
Crude Oil			d (bbls): Unknown			Volume Recovered (bbls): 0	
Produced	Water	Volume Release	d (bbls): Unknow	n	Volume Recovered (bbls): 0		
			ion of dissolved cl	hloride in th	e	☐ Yes ☐ No	
Condensa	ite	Produced water 2 Volume Release				Volume Recovered (bbls):	
Natural G						Volume Recovered (Mcf): 0	
✓ Natural Gas Volume Released (Mcf): 1,552 ☐ Other (describe) Volume/Weight Released (provide units)			unite)	, , ,			
Volume/ Weight Released (provide units		z umis)		volume/ weight Recovered (provide units)			
Cause of Release							
A connection on the wellhead failed and caused a leak. A spark caused the natural gas to catch on fire. The volume of released fluids							
could not be	gauged due t	to the fire.					

Received by OCD: 4/8/2020 2:59:26 PM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	2RP-3713
Application ID	

Was this a major	If YES, for what reason(s) does the respon			
release as defined by 19.15.29.7(A) NMAC?	Natural gas fire, unknown volume of fluid	d was released.		
∑ Yes ☐ No				
		hom? When and by what means (phone, email, etc)? (NMOCD) and Jim Amos (BLM) on May 21, 2016 at 11:00 AM.		
immediate notice was giv	en by John Robinson to Heather Latterson (1	(NATOCE) and shift Amos (BENT) on May 21, 2010 at 11.00 ANI.		
	Initial Re	esponse		
The responsible p	party must undertake the following actions immediately	ely unless they could create a safety hazard that would result in injury		
☐ The source of the rele	ease has been stopped.			
☐ The impacted area ha	s been secured to protect human health and t	d the environment.		
Released materials ha	ave been contained via the use of berms or di	dikes, absorbent pads, or other containment devices.		
All free liquids and re	ecoverable materials have been removed and	nd managed appropriately.		
If all the actions described N/A	d above have <u>not</u> been undertaken, explain w	why:		
IV/A				
Per 10 15 20 8 R (A) NM	(AC the responsible party may commence re	remediation immediately after discovery of a release. If remediation		
		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.				
		best of my knowledge and understand that pursuant to OCD rules and		
public health or the environr	ment. The acceptance of a C-141 report by the O	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have		
		eat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws		
and/or regulations.	The control of the co	in the completion of the last section, states and section in the s		
Printed Name: Kyle	e Littrell	Title: SH&E Supervisor		
	of Janet -	D 01 2020		
Signature:	J ~ /	Date:2-21-2020		
email: <u>Kyle Littrell@xto</u>	energy.com Tel	elephone: 432-221-7331		
OCD Only				
Received by:		Date:		

State of New Mexico Incident ID

Incident ID	
District RP	
Facility ID	2RP-3713
Application ID	

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	51-100 (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release 				
Roring or excavation logs				

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.

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

Received by OCD: 4/8/2020 2:59:26 PM State of New Mexico
Page 4 Oil Conservation Division

	rage 17 of 1	46
ncident ID		
District RP		

2RP-3713

Facility ID
Application ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Kyle Littrell	Title: SH&E Supervisor			
Signature: ** ** ** ** ** ** ** ** ** ** ** ** **	Date: <u>2-21-2020</u>			
email: Kyle Littrell@xtoenergy.com	Telephone:(432)-221-7331			
OCD Only	_			
Received by:	Datas			
NECEIVEU DV.	Date:			

State of New Mexico

Incident ID	nHMP1615523982
District RP	
Facility ID	2RP-3713
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	n 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										
may endanger public health or the environment. should their operations have failed to adequately human health or the environment. In addition, Compliance with any other federal, state, or local restore, reclaim, and re-vegetate the impacted su	ort and/or file certain release notifications and perform corrective actions for releases which The acceptance of a C-141 report by the OCD does not relieve the operator of liability investigate and remediate contamination that pose a threat to groundwater, surface water, OCD acceptance of a C-141 report does not relieve the operator of responsibility for laws and/or regulations. The responsible party acknowledges they must substantially reface area to the conditions that existed prior to the release or their final land use in notification to the OCD when reclamation and re-vegetation are complete.									
Printed Name:Kyle Littrell	Title:SH&E Supervisor									
Signature: Ma Amado	Date: <u>2-21-2020</u>									
email: Kyle Littrell@xtoenergy.com	Telephone: 432-221-7331									
OCD Only										
Received by:	Date:									
	e responsible party of liability should their operations have failed to adequately investigate and bundwater, surface water, human health, or the environment nor does not relieve the responsible, or local laws and/or regulations.									
Closure Approved by:	radford Billings Date: 09/14/2021 Title: Envi.Spec.A									
Printed Name: Bradford Billings	Title: Envi.Spec.A									











From: <u>Daniel Dominguez</u>

To: <u>Patterson, Heather, EMNRD; Robinson, John</u>

Subject: Corral Canyon Federal #4H

Date: Thursday, June 16, 2016 11:53:58 AM
Attachments: Corral Canyon Federal #4H Sample Map.pdf

H601228 EPI.pdf

Heather,

Attached is the Sample Map and Analytical Data for the Corral Canyon Federal #4H, operated by XTO. The release area around the well head has been excavated 1 foot with the remaining area excavated 6 inches.

Laboratory analytical data indicates the excavation to be void of BTEX, TPH and Chloride in excess of NMOCD RRALs.

EPI proposes to backfill the excavation with clean soil and submit a Final Closure Report to NMOCD and XTO.

--

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez Environmental Consultant/Safety Director

Environmental Plus, Inc. P.O. Box 1558 2100 Avenue 'O' Eunice, NM 88231 (575) 631-0401 (Cell) (575) 394-3481 (Office) (575) 394-2601 (fax)





June 13, 2016

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: CORRAL CANYON FED 4H

Enclosed are the results of analyses for samples received by the laboratory on 06/06/16 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



06/06/2016

Soil

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 06/06/2016 Sampling Date:
Reported: 06/13/2016 Sampling Type:

Project Name: CORRAL CANYON FED 4H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: CK

Project Location: UL-P SEC.5,T25S,R29E

mg/kg

Sample ID: SP1 (SURFACE) (H601228-01)

BTEX 8260B

DIEX OZOOB	9	119	Andryzo	u by: ex					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	0.272	0.200	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.200	0.200	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	1.07	0.600	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	1.35	1.20	06/09/2016	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	96.3	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	103 % 80.1-12		1						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33200	16.0	06/07/2016	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	23200	100	06/07/2016	ND	183	91.6	200	14.1	
Surrogate: 1-Chlorooctane	57.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	1010	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231

Fax To: (505) 394-2601

Received: 06/06/2016 Sampling Date: 06/06/2016

Reported: 06/13/2016 Sampling Type: Soil

Project Name: CORRAL CANYON FED 4H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: UL-P SEC.5,T25S,R29E

ma/ka

Sample ID: SP1 (1') (H601228-02)

RTFY 8260R

B1EX 8260B	mg	/ kg	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					
Surrogate: Dibromofluoromethane	103	% 90.4-11	1						
Surrogate: Toluene-d8	101	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	101 % 80.1-12		1						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/07/2016	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	12.7	10.0	06/07/2016	ND	183	91.6	200	14.1	
Surrogate: 1-Chlorooctane	62.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	86.2	% 28-171							

Applyzod By: CK

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 06/06/2016 Sampling Date: 06/06/2016

Reported: 06/13/2016 Sampling Type: Soil

Project Name: CORRAL CANYON FED 4H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Applyzod By: CK

Project Location: UL-P SEC.5,T25S,R29E

Sample ID: SP2 (SURFACE) (H601228-03)

DTEV 9260B

B1EX 8260B	mg,	/ kg	Analyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.200	0.200	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.200	0.200	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.600	0.600	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<1.20	1.20	06/09/2016	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	97.2	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	100	% 80.1-12	1						
Chloride, SM4500Cl-B	mg/kg		Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34800	16.0	06/07/2016	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	6080	100	06/07/2016	ND	183	91.6	200	14.1	
Surrogate: 1-Chlorooctane	46.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	257	% 28-171							

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Celeg & Freene



Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

mg/kg

Received: 06/06/2016 Sampling Date: 06/06/2016

Reported: 06/13/2016 Sampling Type: Soil

Project Name: CORRAL CANYON FED 4H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: CK

Project Location: UL-P SEC.5,T25S,R29E

Sample ID: SP2 (1') (H601228-04)

BTEX 8260B

	9/	9	7	7: - 0::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					
Surrogate: Dibromofluoromethane	104	% 90.4-11	l						
Surrogate: Toluene-d8	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	99.6 % 80.1-12		1						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/07/2016	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1	
Surrogate: 1-Chlorooctane	62.2	% 35-147							
Surrogate: 1-Chlorooctadecane	88.0	% 28-171							

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg & Freene

Received by OCD: 4/8/2020 2:59:26 PM linquished by **EPI Sampler Name** Project Reference Facility Name Client Company -ocation EPI Phone#/Fax# City, State, Zip EPI Project Manager Mailing Address Company Name (575) 394-3481 FAX: (575) 394-2601 2100 Avenue O, Eunice, NM 88231 LAB I.D. Environmental Plus, Inc. SP2 (1") SP1 (1") SP2 (Surface) SP1 (Surface) SAMPLE I.D. David Robinson UL-P Sec. 5, T25S, R29E Corral Canyon Fed 4H 575-394-3481 / 575-394-2601 Eunice New Mexico 88231 P.O. BOX 1558 Daniel Dominguez Environmental Plus, Inc. Time 2:00 pm Date 6/6/16 cool & Intact No G G G (G)RAB OR (C)OMP G P.O. Box 1558, Eunice, NM 88231 # CONTAINERS GROUND WATER WASTEWATER SOIL MATRIX CRUDE OIL SLUDGE OTHER: Attn: Daniel Dominguez ACID/BASE E-mail results to: ddominguezepi@gmail.com & jo∎nn_robinson@xtoenergy.com **Eunice, NM 88231** PRESERV. P.O. Box 1558 ICE/COOL OTHER Bill To 06-Jun-16 06-Jun-16 06-Jun-16 06-Jun-16 DATE SAMPLING 11:41 11:35 10:45 10:16 TIME BTEX 8021B × TPH 8015M CHLORIDES (CIT) ANALYSIS REQUEST Chain of Custody Fort SULFATES (SO4) рН TCLP OTHER >>> Cardinal PAH Page 1 of 1 Page 7 of 7

From: Patterson, Heather, EMNRD

To: "Daniel Dominguez"; Robinson, John

Subject: RE: Corral Canyon Federal #4H

Date: Friday, June 17, 2016 2:16:00 PM

Was SP2 included in the 1' excavation or the 6" excavation?

Heather Patterson Environmental Specialist NMOCD District II Office (575)748-1283 ext.101 Cell (575)703-0228

From: Daniel Dominguez [mailto:ddominguezepi@gmail.com]

Sent: Thursday, June 16, 2016 11:54 AM

To: Patterson, Heather, EMNRD; Robinson, John

Subject: Corral Canyon Federal #4H

Heather,

Attached is the Sample Map and Analytical Data for the Corral Canyon Federal #4H, operated by XTO. The release area around the well head has been excavated 1 foot with the remaining area excavated 6 inches.

Laboratory analytical data indicates the excavation to be void of BTEX, TPH and Chloride in excess of NMOCD RRALs.

EPI proposes to backfill the excavation with clean soil and submit a Final Closure Report to NMOCD and XTO.

--

Sincerely, ENVIRONMENTAL PLUS, INC.

Daniel Dominguez Environmental Consultant/Safety Director

Environmental Plus, Inc. P.O. Box 1558 2100 Avenue 'O' Eunice, NM 88231 (575) 631-0401 (Cell) (575) 394-3481 (Office) (575) 394-2601 (fax)

<u>L1</u>	P			LT Envi	ronmenta	l, Inc.			Identifier: PH01	Date: 10/29/19
LT Environ	mental, Inc.				ronmenta t Stevens lew Mexic ingineering	Project Name: Corral Canyon 4H (on 16H Pad)	RP Number: 2RP-3713			
		LITHO			L SAMPL	Logged By: Anna Byers	Method: Backhoe			
Field Scre					MiniRAE PII				Hole Diameter: N/A	Total Depth: 2 feet
Commen	ts:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type		Lithology/Re	marks
Dry	1320	0	No	PH01	0	0.5	Caliche	Pad surfa	ace caliche, no odor	
Moist	312	0	No		1	1			poorly-sorted sand (m.) with s	silt; no odor, no plasticity
Moist	312	0	No	PH01A	2	2	SM	Brown, p	oorly-sorted sand (m.) with s Total Depth	silt; no odor, no plasticity
					3 4 5 6 7 8 9					

									II CC DIVO	D + 10/20/10
LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220									Identifier: PH02	Date: 10/29/19
LT Environi	mental, Inc.				New Mexic Engineering		Project Name: Corral Canyon 4H (on 16H Pad)	RP Number: 2RP-3713		
	,	LITHO	LOGIO	C / SOII	L SAMPI	LING LO)G		Logged By: Anna Byers	Method: Backhoe
Field Scre					MiniRAE PI				Hole Diameter: N/A	Total Depth: 2 feet
Comment	s:									
	l I			1				1		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/Re	marks
					0	Ц				
Dry	4256	0	No	PH02	+	0.5	Caliche	Pad surfa	ce caliche, no odor	
					-]				Managara 1 22 9
Moist	2512	0	No		1 _	1	SM	Brown, po	oorly-sorted sand (m.) with s	alt; no odor, no plasticity
					1					
Moist	488	0	No	PH02A	2	2	SM	Brown, pe	oorly-sorted sand (m.) with s	ilt; no odor, no plasticity
					-				Total Depth	
					_	1				
					3					
					-	-				
					4	-				
					5	-				
					-	4				
					6	-			/	
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									Identifier: PH03	Date: 10/29/19
IT Environ	mental, Inc.		,	LT Envi 508 Wes	ronmenta It Stevens Iew Mexid	al, Inc. Street			Mariner. 1 1103	Date. 10/2/17
Advancing 2	Opportunity								Project Name: Corral Canyon 4H (on 16H Pad)	RP Number: 2RP-3713
atuaca	LINGUIST CO.		Comp	liance · E	ingineering	· Remed	iation		(on for Fau)	
Field Scr					L SAMPI MiniRAE PI		OG		Logged By: Anna Byers Hole Diameter: N/A	Method: Backhoe Total Depth: 2 feet
		err emor	ide Test c	urps and r					Hole Blameter. N/A	Total Deptil. 2 feet
Commen	ts:		1	•						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/Re	emarks
					0	Ц				
Dry	244	0	No	PH03	_	0.5	Caliche	Pad surfa	ace caliche, no odor	
Moist	1228	0	No		1	1	SM	Brown, p	poorly-sorted sand (m.) with s	silt; no odor, no plasticity
					_	-				
Moist	488	0	No	PH03A	2	2	SM	Brown, p	poorly-sorted sand (m.) with s	silt; no odor, no plasticity
						-			Total Depth	
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11				I T Envi	ronmont	al Inc			Identifier: PH04	Date: 10/29/19				
LT Environ	mental, Inc.		Ca	508 Wes rlsbad, N	ronmenta t Stevens lew Mexid	Street co 88220)		Project Name: Corral Canyon 4H	RP Number: 2RP-3713				
	2		Comp	liance · E	ngineering	· Remed	iation		(on 16H Pad)					
					L SAMPI)G		Logged By: Anna Byers	Method: Backhoe				
Field Scre	ening: HA	CH Chlor	ide Test S	Strips and M	MiniRAE PI	D			Hole Diameter: N/A	Total Depth: 2 feet				
Comment	s: BDL - E	Below Dete	ection Lin	nit										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type		Lithology/Re	marks				
					0									
Dry	BDL	0	No	PH04	-	0.5	Caliche	Pad surfa	ce caliche, no odor					
Moist	BDL	0	No		1	1	SM	Brown, p	oorly-sorted sand (m.) with s	ilt; no odor, no plasticity				
Maiat	DDI	0	No	PH04A	2	2	CM	D		:14d.o				
Moist	BDL	SL 0 NO ITIO+A 2 2					SM	Brown, p	oorly-sorted sand (m.) with s Total Depth	ill; no odor, no plasticity				
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				LT Envi	ronmenta t Stevens lew Mexic	II, Inc.			Identifier: PH05	Date: 10/29/19
LT Environm	mental, Inc.				l Stevens lew Mexic ingineering				Project Name: Corral Canyon 4H (on 16H Pad)	RP Number: 2RP-3713
		LITHO	LOGIC	C / SOII	L SAMPI	ING LO)G		Logged By: Anna Byers	Method: Backhoe
Field Scre					MiniRAE PII				Hole Diameter: N/A	Total Depth: 2 feet
Comment	s: BDL - E	selow Dete	ection Lin	nit						
	1							1		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/Re	marks
					0	Į				
Dry	BDL	0	No	PH05	+	0.5	Caliche	Pad surface	ce caliche, no odor	
					1 1	.]				110.00
Moist	BDL	0	No		1	1	SM	Brown, po	poorly-sorted sand (m.) with s	iit; no odor, no plasticity
					1					
Moist	BDL	0	No	PH05A	2	2	SM	Brown, po	porly-sorted sand (m.) with s	ilt; no odor, no plasticity
					-				Total Depth	
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				LT Envi	ronmenta	al, Inc.			Identifier: PH06	Date: 10/29/19				
LT Environ	mental, Inc.		Ca	วบช Wes rlsbad, N	r onmenta t Stevens lew Mexic	Street to 88220)		Project Name: Corral Canyon 4H	RP Number: 2RP-3713				
2	5				ngineering				(on 16H Pad)					
		LITHO	LOGIC	C / SOII	L SAMPI	LING LO)G		Logged By: Anna Byers	Method: Backhoe				
Field Scre					MiniRAE PI				Hole Diameter: N/A	Total Depth: 2 feet				
Comment	ts: BDL - E	Below Dete	ection Lin	nit										
ture	ride n)	or n)	ing	le #	Depth	Sample	tock oe							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	(ft. bgs.)	Depth	Soil/Rock Type		Lithology/Re	marks				
				01	0	П	<i>O</i> 1							
					V Д									
Dry	BDL	0	No	PH06	_	0.5	Caliche	Pad surfa	ace caliche, no odor					
Moist	BDL	0	No		1	1	1 SM Brown, poorly-sorted sand (m.) with silt; no odor, no plasticity							
						_								
Moist	BDL	0	No	PH06A	2	2	SM	Brown, p	oorly-sorted sand (m.) with s	ilt: no odor, no plasticity				
Wildist	BBE	Ü	110	1110011			SIVI	Вто ин, р	Total Depth					
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IT Environm	nantal Ira			LT Envi 508 Wes	ronmenta t Stevens lew Mexic	I, Inc. Street			Identifier: PH07	Date: 10/29/19					
LT Environm	poortuniy				lew Mexic				Project Name: Corral Canyon 4H (on 16H Pad)	RP Number: 2RP-3713					
]	LITHO	LOGIO	C / SOII	SAMPL	ING LO)G		Logged By: Anna Byers	Method: Backhoe					
Field Scre					MiniRAE PII				Hole Diameter: N/A	Total Depth: 2 feet					
Comments	s: BDL - B	elow Dete	ection Lin	nit											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type		Lithology/Re	marks					
					0										
Dry	BDL	0	No	PH07	<u> </u>	0.5	Caliche	Pad surfa	ace caliche, no odor						
Moist	BDL	0	0 No 1 1 SM						poorly-sorted sand (m.) with s	silt; no odor, no plasticity					
- ~-		-							brown, poorly-sorted saild (iii.) with sitt, no odor, no plasticity						
					1	1									
Moist	BDL	0	No	PH07A	2	2	SM	Brown, p	ooorly-sorted sand (m.) with s Total Depth	silt; no odor, no plasticity					
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				LT Envi	ronmenta	al, Inc.			Identifier: PH08	Date: 10/29/19					
LT Environi	mental, Inc.		Ca	508 Wes rlsbad, N	ronmenta It Stevens Iew Mexid	Street co 88220)		Project Name: Corral Canyon 4H	RP Number: 2RP-3713					
2	5 KA				ingineering				(on 16H Pad)						
<u> </u>		LITHO			L SAMPI				Logged By: Anna Byers	Method: Backhoe					
Field Scre					MiniRAE PI				Hole Diameter: N/A	Total Depth: 2 feet					
Comment	ts: BDL - E	Below Dete	ection Lin	nit											
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ire int	de (1	or 1)	gu	# e	Danish	C 1 .	ock e								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks							
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					0	1									
Dry	244	0	No	PH08		0.5	Caliche	Pad surfa	ace caliche, no odor						
Dry	212	0	No		1	1	Caliche	Pad surfa	ace caliche, no odor						
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Dry	BDL	0	No	PH08A	2	2	Caliche	Pad surfa	nce caliche, no odor Total Depth						
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/1				175					Identifier: PH09	Date: 10/29/19				
LT Environ	mental, Inc.				ronmenta t Stevens lew Mexic ingineering				Project Name: Corral Canyon 4H (on 16H Pad)	RP Number: 2RP-3713				
Field Sere					L SAMPI MiniRAE PI)G		Logged By: Anna Byers Hole Diameter: N/A	Method: Backhoe Total Depth: 2 feet				
		ierr emor	ide Test c	ntrips and r	AIIIII AE I I	D			Hole Diameter. 1V/A	Total Deptil. 2 feet				
Comment	is:													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	(ft. bgs.)		Soil/Rock Type		Lithology/Re	marks				
					0	Ц								
Dry	536	0	No	PH09	<u> </u>	0.5	Caliche	Pad surfa	ce caliche, no odor					
Moist	156	0	No		1	. 1	SM	Brown n	oorly-sorted sand (m) with a	ilt: no odor, no plasticity				
IVIOISU	150	U	110		,	<u>†</u>	1 SM Brown, poorly-sorted sand (m.) with silt; no odor, no plasticity							
					4	-								
Moist	128	0	No	PH09A	2	2	SM	Brown, pe	oorly-sorted sand (m.) with s	ilt; no odor, no plasticity				
					-	-			Total Depth					
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PHOTOGRAPHIC LOG



Photograph 1: View of wellhead and former release area, during assessment activities.



Photograph 2: View of wellhead and former release area, during assessment activities.

Corral Canyon Fed #4H (2RP-3713) Eddy County, New Mexico

Photographs Taken: October 2019



PHOTOGRAPHIC LOG



Photograph 3: View of open excavation.



Photograph 4: View of open excavation.

Corral Canyon Fed #4H (2RP-3713) Eddy County, New Mexico

Photographs Taken: November 2019 . *Released to Imaging: 9/14/2021 9:57:41 AM*



PHOTOGRAPHIC LOG



Photograph 5: View of backfilled excavation.



Photograph 6: View of backfilled excavation.

Corral Canyon Fed #4H (2RP-3713) Eddy County, New Mexico

Photographs Taken: November 2019 . *Released to Imaging: 9/14/2021 9:57:41 AM*



Analytical Report 641857

for

LT Environmental, Inc.

Project Manager: Aimee Cole Corral Canyon 4H 012919124 05-NOV-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



05-NOV-19

Project Manager: Aimee Cole LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 641857

Corral Canyon 4H

Project Address: Rural Eddy County

Aimee Cole:

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) 641857. 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. 641857 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vramer

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 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-29-19 10:30	0.5 ft	641857-001
PH01A	S	10-29-19 10:40	2 ft	641857-002
PH02	S	10-29-19 10:55	0.5 ft	641857-003
PH02A	S	10-29-19 11:05	2 ft	641857-004
PH03	S	10-29-19 11:30	0.5 ft	641857-005
PH03A	S	10-29-19 11:35	1 ft	641857-006
PH03B	S	10-29-19 11:40	2 ft	641857-007
PH04	S	10-29-19 11:55	0.5 ft	641857-008
PH04B	S	10-29-19 12:05	2 ft	641857-009
PH05	S	10-29-19 12:30	0.5 ft	641857-010
PH05A	S	10-29-19 12:40	2 ft	641857-011
PH06	S	10-29-19 13:00	0.5 ft	641857-012
PH06A	S	10-29-19 13:10	2 ft	641857-013
PH07	S	10-29-19 13:20	0.5 ft	641857-014
PH07A	S	10-29-19 13:30	2 ft	641857-015
PH08	S	10-29-19 13:45	0.5 ft	641857-016
PH08A	S	10-29-19 13:55	2 ft	641857-017
PH09	S	10-29-19 14:00	0.5 ft	641857-018
PH09A	S	10-29-19 14:05	2 ft	641857-019

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Corral Canyon 4H

 Project ID:
 012919124
 Report Date:
 05-NOV-19

 Work Order Number(s):
 641857
 Date Received:
 11/01/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3106342 BTEX by EPA 8021B

Lab Sample ID 641857-014 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 641857-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.

The Laboratory Control Sample for m,p-Xylenes , Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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

Batch: LBA-3106466 Chloride by EPA 300

Lab Sample ID 641857-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 641857-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.

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

Batch: LBA-3106467 TPH by SW8015 Mod

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

Samples affected are: 641857-012,641857-007,641857-013,641857-002.

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 641857-012,641857-013.

Received by OCD: 4/8/2020 2:59:26 PM

Certificate of Analysis Summary 641857

LT Environmental, Inc., Arvada, CO

Project Name: Corral Canyon 4H

Date Received in Lab: Fri Nov-01-19 01:59 pm

Report Date: 05-NOV-19 Project Manager: Jessica Kramer

Project Id: 012919124 **Contact:** Aimee Cole **Project Location:** Rural Eddy County

	Lab Id:	641857-0	001	641857-0	002	641857-0	003	641857-	004	641857-	005	641857-	006
Amalusia Banasatal	Field Id:	PH01		PH01A	4	PH02		PH02.	A	PH03	3	PH03	A
Analysis Requested	Depth:	0.5- ft	t	2- ft		0.5- f	t	2- ft		0.5- f	t	1- ft	
	Matrix:	SOIL	,	SOIL	,	SOIL	,	SOIL	_	SOIL		SOIL	
	Sampled:	Oct-29-19	10:30	Oct-29-19	10:40	Oct-29-19	10:55	Oct-29-19	11:05	Oct-29-19	11:30	Oct-29-19	11:35
BTEX by EPA 8021B	Extracted:	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11
	Analyzed:	Nov-02-19	09:13	Nov-02-19	09:32	Nov-02-19	09:51	Nov-02-19	10:11	Nov-02-19	10:30	Nov-02-19	10:49
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	< 0.000994	0.000994	< 0.000990	0.000990	< 0.000998	0.000998
Toluene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	< 0.000994	0.000994	< 0.000990	0.000990	< 0.000998	0.000998
Ethylbenzene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	< 0.000994	0.000994	< 0.000990	0.000990	< 0.000998	0.000998
m,p-Xylenes		< 0.00201	0.00201	< 0.00201	0.00201	< 0.0192	0.0192	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200
o-Xylene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	0.0412	0.000994	< 0.000990	0.000990	< 0.000998	0.000998
Total Xylenes		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	0.0412	0.000994	< 0.000990	0.000990	< 0.000998	0.000998
Total BTEX		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	0.0412	0.000994	< 0.000990	0.000990	< 0.000998	0.000998
Chloride by EPA 300	Extracted:	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30
	Analyzed:	Nov-05-19	08:27	Nov-05-19	08:45	Nov-05-19	08:51	Nov-05-19	08:57	Nov-05-19	09:03	Nov-05-19	09:21
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1390	49.4	343	9.96	2810	99.6	474	9.98	303	10.1	205	10.1
TPH by SW8015 Mod	Extracted:	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00
	Analyzed:	Nov-05-19	01:12	Nov-05-19	02:13	Nov-05-19	11:47	Nov-05-19	02:53	Nov-05-19	12:07	Nov-05-19	03:33
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	<49.8	49.8	<251	251	< 50.0	50.0	< 50.3	50.3	< 50.0	50.0
Diesel Range Organics (DRO)		< 50.2	50.2	<49.8	49.8	9890	251	< 50.0	50.0	<50.3	50.3	< 50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	<49.8	49.8	1460	251	64.3	50.0	<50.3	50.3	< 50.0	50.0
Total GRO-DRO		< 50.2	50.2	<49.8	49.8	9890	251	< 50.0	50.0	<50.3	50.3	< 50.0	50.0
Total TPH		< 50.2	50.2	<49.8	49.8	11400	251	64.3	50.0	<50.3	50.3	< 50.0	50.0

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 Vermer

Jessica Kramer Project Assistant

Received by OCD: 4/8/2020 2:59:26 PM

Project Id:

Contact:

Certificate of Analysis Summary 641857

LT Environmental, Inc., Arvada, CO

Date Received in Lab: Fri Nov-01-19 01:59 pm

Report Date: 05-NOV-19 Project Manager: Jessica Kramer

Project Name: Corral Canyon 4H

Rural Eddy County **Project Location:**

012919124

Aimee Cole

	Lab Id:	641857-0	007	641857-0	108	641857-0	109	641857-0	10	641857-	011	641857-0	012
	Field Id:	PH03E		PH04		PH04E		PH05	,10	PH05		PH06	
Analysis Requested	Depth:	2- ft		0.5- ft		2- ft		0.5- ft		2- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-29-19		Oct-29-19 1		Oct-29-19	12:05	Oct-29-19	12:30	Oct-29-19		Oct-29-19	
BTEX by EPA 8021B	1												
DIEA by El A 6021B	Extracted:	Nov-01-19		Nov-01-19		Nov-01-19		Nov-01-19		Nov-01-19		Nov-01-19	
	Analyzed:	Nov-02-19	11:08	Nov-02-19	11:27	Nov-02-19	11:46	Nov-02-19	12:50	Nov-02-19	13:09	Nov-02-19	13:29
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Toluene		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Ethylbenzene		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
m,p-Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201
o-Xylene		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Total Xylenes		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Total BTEX		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Chloride by EPA 300	Extracted:	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30
	Analyzed:	Nov-05-19	09:27	Nov-05-19	09:33	Nov-05-19	09:39	Nov-05-19	09:45	Nov-05-19	09:51	Nov-05-19	10:09
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		531	10.1	68.7	10.0	38.3	10.0	42.4	9.98	41.3	9.92	24.2	9.98
TPH by SW8015 Mod	Extracted:	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00
	Analyzed:	Nov-05-19	03:54	Nov-05-19	04:14	Nov-05-19	04:34	Nov-05-19	04:54	Nov-05-19	05:34	Nov-05-19	05:54
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	<50.3	50.3	<49.9	49.9	< 50.2	50.2	<49.9	49.9	< 50.3	50.3
Diesel Range Organics (DRO)		< 50.2	50.2	<50.3	50.3	<49.9	49.9	< 50.2	50.2	<49.9	49.9	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	<50.3	50.3	<49.9	49.9	< 50.2	50.2	<49.9	49.9	<50.3	50.3
Total GRO-DRO		< 50.2	50.2	<50.3	50.3	<49.9	49.9	< 50.2	50.2	<49.9	49.9	<50.3	50.3
Total TPH		<50.2	50.2	<50.3	50.3	<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.3	50.3

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Jessica Kramer Project Assistant



Certificate of Analysis Summary 641857

LT Environmental, Inc., Arvada, CO Project Name: Corral Canyon 4H

Date Received in Lab: Fri Nov-01-19 01:59 pm

Report Date: 05-NOV-19 **Project Manager:** Jessica Kramer

Project Id: 012919124 **Contact:** Aimee Cole

Rural Eddy County

Project Location:

	Lab Id:	641857-0)13	641857-0	014	641857-0	015	641857-0	016	641857-	017	641857-	018
Anadoria Donosado I	Field Id:	PH06A	\	PH07	,	PH07	A	PH08		PH08.	A	PH09)
Analysis Requested	Depth:	2- ft		0.5- f	t	2- ft		0.5- ft	t	2- ft		0.5- f	ì
	Matrix:	SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL	.	SOIL	_
	Sampled:	Oct-29-19	13:10	Oct-29-19	13:20	Oct-29-19	13:30	Oct-29-19	13:45	Oct-29-19	13:55	Oct-29-19	14:00
BTEX by EPA 8021B	Extracted:	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11
	Analyzed:	Nov-02-19	13:48	Nov-02-19	08:54	Nov-02-19	14:07	Nov-02-19	14:26	Nov-02-19	14:45	Nov-02-19	15:04
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	·	< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Toluene		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Ethylbenzene		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
m,p-Xylenes		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202
o-Xylene		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Total Xylenes		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Total BTEX		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Chloride by EPA 300	Extracted:	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30
	Analyzed:	Nov-05-19	10:15	Nov-05-19	10:33	Nov-05-19	10:39	Nov-05-19	10:45	Nov-05-19	10:51	Nov-05-19	10:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride	·	65.7	50.4	34.1	10.0	23.2	10.1	707	20.2	54.6	9.98	635	49.8
TPH by SW8015 Mod	Extracted:	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00
	Analyzed:	Nov-05-19	06:14	Nov-05-19	06:34	Nov-05-19	06:54	Nov-05-19	07:14	Nov-05-19	07:34	Nov-05-19	07:54
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	"	< 50.0	50.0	< 50.0	50.0	< 50.3	50.3	< 50.2	50.2	<49.8	49.8	<49.9	49.9
Diesel Range Organics (DRO)		< 50.0	50.0	< 50.0	50.0	< 50.3	50.3	< 50.2	50.2	<49.8	49.8	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	< 50.0	50.0	< 50.3	50.3	<50.2	50.2	<49.8	49.8	<49.9	49.9
Total GRO-DRO		< 50.0	50.0	< 50.0	50.0	< 50.3	50.3	< 50.2	50.2	<49.8	49.8	<49.9	49.9
Total TPH		< 50.0	50.0	< 50.0	50.0	< 50.3	50.3	< 50.2	50.2	<49.8	49.8	<49.9	49.9

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Jessica Kramer

Jessica Kramer Project Assistant

Received by OCD: 4/8/2020 2:59:26 PM XENCO LABORATORIES

Certificate of Analysis Summary 641857

LT Environmental, Inc., Arvada, CO Project Name: Corral Canyon 4H

Date Received in Lab: Fri Nov-01-19 01:59 pm

Report Date: 05-NOV-19 **Project Manager:** Jessica Kramer

Project Id: 012919124 **Contact:** Aimee Cole

Project Location:

Rural Eddy County

	Lab Id:	641857-019			
Analysis Requested	Field Id:	PH09A			
Analysis Requested	Depth:	2- ft			
	Matrix:	SOIL			
	Sampled:	Oct-29-19 14:05			
BTEX by EPA 8021B	Extracted:	Nov-01-19 18:11			
	Analyzed:	Nov-02-19 15:24			
	Units/RL:	mg/kg RL			
Benzene		<0.000998 0.000998			
Toluene		<0.000998 0.000998			
Ethylbenzene		<0.000998 0.000998			
m,p-Xylenes		<0.00200 0.00200			
o-Xylene		< 0.000998 0.000998			
Total Xylenes		< 0.000998 0.000998			
Total BTEX		<0.000998 0.000998			
Chloride by EPA 300	Extracted:	Nov-05-19 07:30			
	Analyzed:	Nov-05-19 11:03			
	Units/RL:	mg/kg RL			
Chloride	·	123 9.94			
TPH by SW8015 Mod	Extracted:	Nov-04-19 17:00			
	Analyzed:	Nov-05-19 08:14			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)	· ·	<49.8 49.8			
Diesel Range Organics (DRO)		<49.8 49.8			
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8			
Total GRO-DRO		<49.8 49.8			
Total TPH		<49.8 49.8			

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Jessica pramu



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH01

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-001

Date Collected: 10.29.19 10.30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

Analyst:

MAB MAB

Date Prep: 11.05.19 07.30

Basis:

Wet Weight

Seq Number: 3106466

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1390	49.4	mg/kg	11.05.19 08.27		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:
Analyst:

DTH DTH

Date Prep: 11.04.19 17.00

Basis: W

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.05.19 01.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	11.05.19 01.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	11.05.19 01.12	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	11.05.19 01.12	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	11.05.19 01.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	72	%	70-135	11.05.19 01.12		
o-Terphenyl		84-15-1	76	%	70-135	11.05.19 01.12		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH01 Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-001 Date Collected: 10.29.19 10.30 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	11.02.19 09.13	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	11.02.19 09.13		
1,4-Difluorobenzene		540-36-3	100	%	70-130	11.02.19 09.13		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH01A Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-002

Date Collected: 10.29.19 10.40

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB MAB

Date Prep: 11.05.19 07.30 % Moisture:

Basis:

Wet Weight

Seq Number: 3106466

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 343 11.05.19 08.45 9.96 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst:

DTH DTH

11.04.19 17.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	11.05.19 02.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	11.05.19 02.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	11.05.19 02.13	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	11.05.19 02.13	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	11.05.19 02.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	134	%	70-135	11.05.19 02.13		
o-Terphenyl		84-15-1	142	%	70-135	11.05.19 02.13	**	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH01A Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-002 Date Collected: 10.29.19 10.40 Sample Depth: 2 ft

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

% Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Seq Number: 3106342

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	11.02.19 09.32	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	124	%	70-130	11.02.19 09.32		
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.02.19 09.32		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Soil

Sample Id: **PH02** Matrix:

Date Received:11.01.19 13.59

Lab Sample Id: 641857-003

Date Collected: 10.29.19 10.55

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB MAB

% Moisture:

Seq Number: 3106466

11.05.19 07.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2810	99.6	mg/kg	11.05.19 08.51		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

DTH Analyst:

11.04.19 17.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251		mg/kg	11.05.19 11.47	U	5
Diesel Range Organics (DRO)	C10C28DRO	9890	251		mg/kg	11.05.19 11.47		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1460	251		mg/kg	11.05.19 11.47		5
Total GRO-DRO	PHC628	9890	251		mg/kg	11.05.19 11.47		5
Total TPH	PHC635	11400	251		mg/kg	11.05.19 11.47		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	11.05.19 11.47		
o-Terphenyl		84-15-1	107	%	70-135	11.05.19 11.47		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH02 Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-003 Date Collected: 10.29.19 10.55 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Toluene	108-88-3	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Ethylbenzene	100-41-4	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
m,p-Xylenes	179601-23-1	< 0.0192	0.0192		mg/kg	11.02.19 09.51	U	1
o-Xylene	95-47-6	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Total Xylenes	1330-20-7	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Total BTEX		< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	11.02.19 09.51		
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 09.51		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH02A

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-004

Date Collected: 10.29.19 11.05

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep: 11.05.19 07.30

Basis:

Wet Weight

Seq Number: 3106466

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 474
 9.98
 mg/kg
 11.05.19 08.57
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 11.04.19 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	11.05.19 02.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	11.05.19 02.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	64.3	50.0		mg/kg	11.05.19 02.53		1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	11.05.19 02.53	U	1
Total TPH	PHC635	64.3	50.0		mg/kg	11.05.19 02.53		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	11.05.19 02.53		
o-Terphenyl		84-15-1	97	%	70-135	11.05.19 02.53		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH02A Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-004 Date Collected: 10.29.19 11.05 Sample Depth: 2 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000994	0.000994		mg/kg	11.02.19 10.11	U	1
Toluene	108-88-3	< 0.000994	0.000994		mg/kg	11.02.19 10.11	U	1
Ethylbenzene	100-41-4	< 0.000994	0.000994		mg/kg	11.02.19 10.11	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	11.02.19 10.11	U	1
o-Xylene	95-47-6	0.0412	0.000994		mg/kg	11.02.19 10.11		1
Total Xylenes	1330-20-7	0.0412	0.000994		mg/kg	11.02.19 10.11		1
Total BTEX		0.0412	0.000994		mg/kg	11.02.19 10.11		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.02.19 10.11		
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 10.11		



Lab Sample Id: 641857-005

Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: Matrix: **PH03**

Soil

Date Received:11.01.19 13.59

Date Collected: 10.29.19 11.30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

11.05.19 07.30 Basis: Date Prep:

Wet Weight

Seq Number: 3106466

Analyst:

MAB

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	303	10.1	mg/kg	11.05.19 09.03		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

11.04.19 17.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	11.05.19 12.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	11.05.19 12.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	11.05.19 12.07	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	11.05.19 12.07	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	11.05.19 12.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	11.05.19 12.07		
o-Terphenyl		84-15-1	110	%	70-135	11.05.19 12.07		



MAB

Tech:

Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Basis:

Wet Weight

Sample Id: PH03 Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-005 Date Collected: 10.29.19 11.30 Sample Depth: 0.5 ft

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

% Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Seq Number: 3106342

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000990	0.000990	mg/kg	11.02.19 10.30	U	1
Toluene	108-88-3	< 0.000990	0.000990	mg/kg	11.02.19 10.30	U	1
Ethylbenzene	100-41-4	< 0.000990	0.000990	mg/kg	11.02.19 10.30	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198	mg/kg	11.02.19 10.30	U	1
o-Xylene	95-47-6	< 0.000990	0.000990	mg/kg	11.02.19 10.30	U	1
Total Xylenes	1330-20-7	< 0.000990	0.000990	mg/kg	11.02.19 10.30	U	1
Total BTEX		< 0.000990	0.000990	mg/kg	11.02.19 10.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	124	%	70-130	11.02.19 10.30	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.02.19 10.30	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH03A Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-006

Date Collected: 10.29.19 11.35

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB MAB

Date Prep: 11.05.19 07.30 % Moisture: Basis:

Wet Weight

Seq Number: 3106466

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	205	10.1	mg/kg	11.05.19 09.21		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

11.04.19 17.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	11.05.19 03.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	11.05.19 03.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	11.05.19 03.33	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	11.05.19 03.33	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	11.05.19 03.33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-135	11.05.19 03.33		
o-Terphenyl		84-15-1	94	%	70-135	11.05.19 03.33		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH03A Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-006 Date Collected: 10.29.19 11.35

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 11.01.19 18.11

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 10.49	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	11.02.19 10.49		
4-Bromofluorobenzene		460-00-4	117	%	70-130	11.02.19 10.49		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: **PH03B**

Matrix:

Soil Date Received:11.01.19 13.59

Units

mg/kg

Lab Sample Id: 641857-007

Date Collected: 10.29.19 11.40

RL

10.1

Sample Depth: 2 ft

Analysis Date

11.05.19 09.27

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

531

Result

11.05.19 07.30

Basis:

Wet Weight

Flag

Dil

1

Seq Number: 3106466

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst:

Parameter

Chloride

DTH DTH

Date Prep:

Cas Number

16887-00-6

11.04.19 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	11.05.19 03.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	11.05.19 03.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	11.05.19 03.54	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	11.05.19 03.54	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	11.05.19 03.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	135	%	70-135	11.05.19 03.54		
o-Terphenyl		84-15-1	144	%	70-135	11.05.19 03.54	**	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH03B Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-007 Date Collected: 10.29.19 11.40 Sample Depth: 2 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	11.02.19 11.08	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	11.02.19 11.08		
4-Bromofluorobenzene		460-00-4	115	%	70-130	11.02.19 11.08		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH04

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-008

Date Collected: 10.29.19 11.55

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep: 11.05.19 07.30

Result

68.7

Basis:

mg/kg

Wet Weight

Seq Number: 3106466

Parameter Cas Number
Chloride 16887-00-6

RL

10.0

Units Analysis Date

11.05.19 09.33

Flag Dil

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Basis: Wet Weight

Analyst: DTH

Date Prep: 11.04.19 17.00

Seq Number: 3106467

Cas Number Result RL**Parameter** Units **Analysis Date** Flag Dil PHC610 11.05.19 04.14 Gasoline Range Hydrocarbons (GRO) <50.3 50.3 mg/kg U 1 Diesel Range Organics (DRO) C10C28DRO < 50.3 50.3 mg/kg 11.05.19 04.14 U 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 < 50.3 50.3 11.05.19 04.14 U mg/kg Total GRO-DRO PHC628 < 50.3 50.3 mg/kg 11.05.19 04.14 U 1 Total TPH PHC635 50.3 U < 50.3 11.05.19 04.14 mg/kg 1 % Cas Number Units Surrogate Limits **Analysis Date** Flag

 Surrogate
 Cas Number
 Recovery
 Units
 Limits
 Analysis Date

 1-Chlorooctane
 111-85-3
 79
 %
 70-135
 11.05.19 04.14

 0-Terphenyl
 84-15-1
 86
 %
 70-135
 11.05.19 04.14



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH04 Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-008 Date Collected: 10.29.19 11.55 Sample Depth: 0.5 ft

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

% Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Seq Number: 3106342

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Toluene	108-88-3	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Ethylbenzene	100-41-4	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	11.02.19 11.27	U	1
o-Xylene	95-47-6	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Total Xylenes	1330-20-7	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Total BTEX		< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 11.27		
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.02.19 11.27		

Dil

1



Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH04B

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-009

Date Collected: 10.29.19 12.05

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep: 11.05.19 07.30

Basis:

Wet Weight

Seq Number: 3106466

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag

 Chloride
 16887-00-6
 38.3
 10.0
 mg/kg
 11.05.19 09.39

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 11.04.19 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	11.05.19 04.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	11.05.19 04.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	11.05.19 04.34	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	11.05.19 04.34	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	11.05.19 04.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	11.05.19 04.34		
o-Terphenyl		84-15-1	128	%	70-135	11.05.19 04.34		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH04B Matrix: Soil

Date Received:11.01.19 13.59

Date Collected: 10.29.19 12.05

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep M

Prep Method: SW5030B

% Moisture:

Tech: MAB

Analyst:

MAB MAB

Date Prep: 11.01.19 18.11

Basis: Wet Weight

Seq Number: 3106342

Lab Sample Id: 641857-009

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Toluene	108-88-3	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Ethylbenzene	100-41-4	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	11.02.19 11.46	U	1
o-Xylene	95-47-6	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Total Xylenes	1330-20-7	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Total BTEX		< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	11.02.19 11.46		
4-Bromofluorobenzene		460-00-4	124	%	70-130	11.02.19 11.46		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: **PH05**

Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-010

Date Collected: 10.29.19 12.30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

MAB Tech:

MAB Analyst:

Date Prep: 11.05.19 07.30

9.98

Basis:

Wet Weight

Wet Weight

Seq Number: 3106466

Parameter Cas Number Result RLChloride 16887-00-6

Units **Analysis Date**

mg/kg

Flag Dil

1

Analytical Method: TPH by SW8015 Mod

DTH

Tech: DTH Analyst:

11.04.19 17.00 Date Prep:

% Moisture:

Prep Method: SW8015P

11.05.19 09.45

Basis:

Seq Number: 3106467

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.05.19 04.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	11.05.19 04.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	11.05.19 04.54	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	11.05.19 04.54	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	11.05.19 04.54	U	1
Surrogate		Cas Number	% Pagayary	Units	Limits	Analysis Date	Flag	

42.4

1-Chlorooctane 111-85-3 11.05.19 04.54 % 70-135 82 o-Terphenyl 84-15-1 88 % 70-135 11.05.19 04.54



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH05 Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-010 Date Collected: 10.29.19 12.30 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 12.50	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	11.02.19 12.50		
1,4-Difluorobenzene		540-36-3	101	%	70-130	11.02.19 12.50		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH05A

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-011

Date Collected: 10.29.19 12.40

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: N

MAB

% Moisture:

Analyst: MAB

Date Prep: 11.05.19 07.30

Basis:

Wet Weight

Seq Number: 3106466

Parameter Cas Number
Chloride 16887-00-6

lt RL 41.3 9.92 Units Analysis Date

mg/kg

70-135

Flag Dil

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

11.05.19 05.34

11.05.19 09.51

Analyst: DTH

o-Terphenyl

Date Prep:

84-15-1

Result

11.04.19 17.00

Basis: Wet Weight

Seq Number: 3106467

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	11.05.19 05.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	11.05.19 05.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	11.05.19 05.34	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	11.05.19 05.34	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	11.05.19 05.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	117	%	70-135	11.05.19 05.34		

123



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH05A Matrix: Soil Date

Date Collected: 10.29.19 12.40

Date Received:11.01.19 13.59

Sample Depth: 2 ft

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

% Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Seq Number: 3106342

Tech:

Lab Sample Id: 641857-011

MAB

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	11.02.19 13.09	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.02.19 13.09		
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.02.19 13.09		

Dil

1



Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

11.05.19 07.30

Sample Id: PH06

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-012

Date Collected: 10.29.19 13.00

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

Basis:

Wet Weight

Seq Number: 3106466

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag

 Chloride
 16887-00-6
 24.2
 9.98
 mg/kg
 11.05.19 10.09

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DTH

% Moisture:

Analyst: DTH

Tech:

Date Prep: 11.04.19 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.3	50.3		mg/kg	11.05.19 05.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	11.05.19 05.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	11.05.19 05.54	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	11.05.19 05.54	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	11.05.19 05.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	174	%	70-135	11.05.19 05.54	**	
o-Terphenyl		84-15-1	187	%	70-135	11.05.19 05.54	**	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH06 Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-012 Date Collected: 10.29.19 13.00 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	11.02.19 13.29	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.02.19 13.29		
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.02.19 13.29		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: **PH06A**

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-013

Date Collected: 10.29.19 13.10

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

MAB

%0 T

Analyst: MAB

Date Prep:

11.05.19 07.30

Basis:

Wet Weight

Seq Number: 3106466

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 65.7
 50.4
 mg/kg
 11.05.19 10.15
 5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 11.04.19 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	11.05.19 06.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	11.05.19 06.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	11.05.19 06.14	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	11.05.19 06.14	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	11.05.19 06.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	138	%	70-135	11.05.19 06.14	**	
o-Terphenyl		84-15-1	146	%	70-135	11.05.19 06.14	**	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH06A Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-013 Date Collected: 10.29.19 13.10 Sample Depth: 2 ft

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

% Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Seq Number: 3106342

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Toluene	108-88-3	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Ethylbenzene	100-41-4	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	11.02.19 13.48	U	1
o-Xylene	95-47-6	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Total Xylenes	1330-20-7	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Total BTEX		< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 13.48		
4-Bromofluorobenzene		460-00-4	118	%	70-130	11.02.19 13.48		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH07

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-014

Date Collected: 10.29.19 13.20

Sample Depth: 0.5 ft

Analysis Date

11.05.19 10.33

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB MAB

Date Prep: 11.05.19 07.30

% Moisture: Basis:

Wet Weight

Flag

Dil

1

Seq Number: 3106466

 Parameter
 Cas Number
 Result
 RL
 Units

 Chloride
 16887-00-6
 34.1
 10.0
 mg/kg

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 11.04.19 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	11.05.19 06.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	11.05.19 06.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	11.05.19 06.34	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	11.05.19 06.34	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	11.05.19 06.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-135	11.05.19 06.34		
o-Terphenyl		84-15-1	83	%	70-135	11.05.19 06.34		



Tech:

Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: **PH07** Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-014 Date Collected: 10.29.19 13.20 Sample Depth: 0.5 ft

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

> MAB% Moisture:

Analyst:	MAB	Date Prep:	11.01.19 18.11	Basis:	Wet Weight
Seq Number:	3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 08.54	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	11.02.19 08.54		
4-Bromofluorobenzene		460-00-4	115	%	70-130	11.02.19 08.54		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH07A

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-015

Date Collected: 10.29.19 13.30

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: M

MAB

% Moisture:

Analyst: MAB

Date Prep: 11.05.19 07.30

Basis:

Wet Weight

Seq Number: 3106466

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 23.2
 10.1
 mg/kg
 11.05.19 10.39
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: D

DTH

% Moisture:

Analyst: DTH

Date Prep: 11.04.19 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	RL		Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	11.05.19 06.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	11.05.19 06.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	11.05.19 06.54	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	11.05.19 06.54	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	11.05.19 06.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	11.05.19 06.54		
o-Terphenyl		84-15-1	121	%	70-135	11.05.19 06.54		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH07A Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-015 Date Collected: 10.29.19 13.30

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Basis:

Analyst: MAB

11.01.19 18.11

Wet Weight

Seq Number: 3106342

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 14.07	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.02.19 14.07		
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.02.19 14.07		

Date Prep:



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Soil

Sample Id: PH08

Matrix:

Date Received:11.01.19 13.59

Lab Sample Id: 641857-016

Date Collected: 10.29.19 13.45

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB MAB

Date Prep: 11.05.19 07.30

% Moisture:

Basis:

Wet Weight

Seq Number: 3106466

Seq (valide). 3100400

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 707
 20.2
 mg/kg
 11.05.19 10.45
 2

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 11.04.19 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	RL		Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.05.19 07.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	11.05.19 07.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	11.05.19 07.14	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	11.05.19 07.14	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	11.05.19 07.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	11.05.19 07.14		
o-Terphenyl		84-15-1	102	%	70-135	11.05.19 07.14		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH08 Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-016 Date Collected: 10.29.19 13.45 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 14.26	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.02.19 14.26		
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.02.19 14.26		

1



Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Soil

Sample Id: PH08A Matrix:

Date Received:11.01.19 13.59

Lab Sample Id: 641857-017

Date Collected: 10.29.19 13.55

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

11.05.19 07.30

11.04.19 17.00

Basis:

Wet Weight

Seq Number: 3106466

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 11.05.19 10.51 54.6 9.98 mg/kg

Date Prep:

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Basis: Wet Weight

DTH Analyst: Seq Number: 3106467

Parameter	Cas Number	Result	RL	RL		Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	11.05.19 07.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	11.05.19 07.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	11.05.19 07.34	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	11.05.19 07.34	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	11.05.19 07.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	11.05.19 07.34		
o-Terphenyl		84-15-1	99	%	70-135	11.05.19 07.34		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH08A Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-017 Date Collected: 10.29.19 13.55 Sample Depth: 2 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	11.02.19 14.45	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	11.02.19 14.45		
1.4-Difluorobenzene		540-36-3	84	%	70-130	11.02.19 14.45		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Soil

Sample Id: PH09

Matrix:

Date Received:11.01.19 13.59

Lab Sample Id: 641857-018

Date Collected: 10.29.19 14.00

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: MA

Analyst:

Chloride

MAB MAB

Date Prep: 11.05.19 07.30

49.8

Basis:

Wet Weight

Seq Number: 3106466

Parameter Cas Number

16887-00-6

Result RL

Units Analysis Date

mg/kg

Flag Dil

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

11.05.19 10.57

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

635

11.04.19 17.00

Basis:

Wet Weight

Seq Number: 3106467

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	11.05.19 07.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	11.05.19 07.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	11.05.19 07.54	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	11.05.19 07.54	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	11.05.19 07.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

 Surrogate
 Cas Number Recovery
 Recovery
 Units
 Limits
 Analysis Date

 1-Chlorooctane
 111-85-3
 97
 %
 70-135
 11.05.19 07.54

 o-Terphenyl
 84-15-1
 104
 %
 70-135
 11.05.19 07.54



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH09 Matrix: Soil Date Received:11.01.19 13.59

Lab Sample Id: 641857-018 Date Collected: 10.29.19 14.00 Sample Depth: 0.5 ft

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

% Moisture:

Analyst: MAB Date Prep: 11.01.19 18.11 Basis: Wet Weight

Seq Number: 3106342

MAB

Tech:

Parameter	Cas Number	Result RL			Units	Units Analysis Date		Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	11.02.19 15.04	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	11.02.19 15.04		
4-Bromofluorobenzene		460-00-4	122	%	70-130	11.02.19 15.04		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH09A

Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-019

Date Collected: 10.29.19 14.05

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep: 11.05.19 07.30

Result

123

Basis:

Wet Weight

Seq Number: 3106466

Parameter Cas Number
Chloride 16887-00-6

RL

9.94

Units Analysis Date

mg/kg

Flag Dil

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

11.05.19 11.03

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 11.04.19 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	lt RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	11.05.19 08.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	11.05.19 08.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	11.05.19 08.14	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	11.05.19 08.14	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	11.05.19 08.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

11.01.19 18.11

Sample Id: PH09A Matrix: Soil

Date Received:11.01.19 13.59

Lab Sample Id: 641857-019 Date Collected: 10.29.19 14.05

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB % Moisture:

MAB Analyst:

Basis: Wet Weight

Seq Number: 3106342

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 15.24	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 15.24		
4-Bromofluorobenzene		460-00-4	122	%	70-130	11.02.19 15.24		

Date Prep:



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.

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

^{**} Surrogate recovered outside laboratory control limit.

X

E300P

E300P

E300P

SW8015P

MS = Matrix Spike

11.05.19

Prep Method:

Prep Method:

Date Prep:



QC Summary 641857

LT Environmental, Inc.

Corral Canyon 4H

Analytical Method: Chloride by EPA 300

Seq Number: 3106466 Matrix: Solid

LCS Sample Id: 7689438-1-BKS LCSD Sample Id: 7689438-1-BSD MB Sample Id: 7689438-1-BLK

MR Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result

11.05.19 08:15 Chloride <10.0 250 235 94 237 95 90-110 20 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: Seq Number: 3106466 Matrix: Soil 11.05.19 Date Prep:

Parent Sample Id: 641857-001 MS Sample Id: 641857-001 S MSD Sample Id: 641857-001 SD

MS MS %RPD RPD Limit Units Parent Spike **MSD MSD** Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec

Chloride 1390 998 2670 128 2680 130 90-110 0 20 mg/kg 11.05.19 08:33

Analytical Method: Chloride by EPA 300

3106466 Matrix: Soil Seq Number: Date Prep: 11.05.19

MS Sample Id: MSD Sample Id: 641857-011 SD 641857-011 S 641857-011 Parent Sample Id:

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 41.3 199 270 115 269 90-110 0 20 11.05.19 09:57 X 116 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: Seq Number: 3106467 Matrix: Solid Date Prep: 11.04.19

7689599-1-BKS LCSD Sample Id: 7689599-1-BSD 7689599-1-BLK LCS Sample Id: MB Sample Id:

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD Flag **Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 893 89 945 70-135 11.05.19 00:32 < 50.0 1000 95 6 35 mg/kg 11.05.19 00:32 990 99 1030 70-135 35 Diesel Range Organics (DRO) 1000 103 4 < 50.0 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 95 109 114 70-135 % 11.05.19 00:32 11.05.19 00:32 o-Terphenyl 102 109 112 70-135 %

Analytical Method: TPH by SW8015 Mod

Prep Method: Seg Number: 3106467 Matrix: Solid Date Prep: 11.04.19

MB Sample Id: 7689599-1-BLK

MB Units Analysis Flag **Parameter** Result Date

11.05.19 00:12 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result = MS/LCS Result

B = Spike Added D = MSD/LCSD % Rec = MSD/LCSD Result



Seq Number:

Parent Sample Id:

QC Summary 641857

LT Environmental, Inc.

Corral Canyon 4H

Analytical Method: TPH by SW8015 Mod

641857-001

3106467 Matrix: Soil

MS Sample Id: 641857-001 S

SW8015P Prep Method:

Date Prep: 11.04.19

MSD Sample Id: 641857-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	964	96	1000	100	70-135	4	35	mg/kg	11.05.19 01:32	
Diesel Range Organics (DRO)	< 50.2	1000	1080	108	1130	113	70-135	5	35	mg/kg	11.05.19 01:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		126		70-135	%	11.05.19 01:32
o-Terphenyl	120		126		70-135	%	11.05.19 01:32

Analytical Method: BTEX by EPA 8021B

Seq Number: 3106342

Matrix: Solid

Prep Method: Date Prep: 11.01.19

70-130

Prep Method:

%

SW5030B

11.02.19 07:12

SW5030B

Flag

LCS Sample Id: 7689543-1-BKS LCSD Sample Id: 7689543-1-BSD MB Sample Id: 7689543-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lin	it Units	Analysis Date	I
Benzene	< 0.00100	0.100	0.0976	98	0.100	100	70-130	2	35	mg/kg	11.02.19 07:12	
Toluene	< 0.00100	0.100	0.0999	100	0.101	101	70-130	1	35	mg/kg	11.02.19 07:12	
Ethylbenzene	< 0.00100	0.100	0.0949	95	0.0979	98	71-129	3	35	mg/kg	11.02.19 07:12	
m,p-Xylenes	< 0.00200	0.200	0.202	101	0.208	104	70-135	3	35	mg/kg	11.02.19 07:12	
o-Xylene	< 0.00100	0.100	0.104	104	0.106	106	71-133	2	35	mg/kg	11.02.19 07:12	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	98		1	.03		100		7	70-130	%	11.02.19 07:12	

114

Analytical Method: BTEX by EPA 8021B

112

4-Bromofluorobenzene

Seq Number: 3106342 Matrix: Soil Date Prep: 11.01.19 MS Sample Id: 641857-014 S MSD Sample Id: 641857-014 SD Parent Sample Id: 641857-014

116

MS MS Limits %RPD RPD Limit Units Parent Spike MSD MSD Analysis Flag **Parameter** Result Amount Result %Rec %Rec Date Result 72 11.02.19 07:50 < 0.00100 0.1000.07150.0837 70-130 Benzene 84 16 35 mg/kg Toluene < 0.00100 0.1000.070270 0.0769 77 70-130 9 35 mg/kg 11.02.19 07:50 0.100 0.0715 71-129 15 11.02.19 07:50 Ethylbenzene < 0.00100 0.0614 61 72 35 mg/kg X 0.200 11.02.19 07:50 X m,p-Xylenes < 0.00200 0.129 65 0.150 70-135 15 35 75 mg/kg o-Xylene 0.100 71-133 11.02.19 07:50 0.0800 18 35 X < 0.00100 0.0667 67 80 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		104		70-130	%	11.02.19 07:50
4-Bromofluorobenzene	119		123		70-130	%	11.02.19 07:50

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result

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

Page 98 of 124

Chain of Custody

Work Order No: 141 85

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Phoenix.AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasibad, NM (432) 704-5440

	0	Com Bri	Relinquished by: (Signature)	of Xenco. A minimum charge of \$75.00 v	Notice: Signature of this document and roof service. Xenco will be liable only for the	Circle Method(s) and Metal(s) to be analyzed	1 200 7 / 6040	PHoS	PHOMA	PHOH	8H03B	PHO3A	PH03	PHOZ A	PHO2	KHOIA	VHO!		Sample Identification	Sample Custody Seals:		Received Intact:	Temperature (°C):	SAMPLE RECEIPT	PO#: 2RP-	Sampler's Name: Anna	Project Location Ruya	Project Number: 012				City, State ZIP: MID	Address: 3300	Company Name: LT	AIR	
		Milled	Received by: (Signature)	will be applied to each project and a charge of \$5 for each	relinquishment of samples constitutes a valid purchase or	Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<	5 1205	5811		S 1135		S			5 10/29/19 1030	Sampled S.	Date	N/A N/A		3 WILL ON @	Ther	Temp Blank: (Yes) No Wet Ice:	3713 Quote #:	byers Due D.	Eddy County Rush:	012919124 Routine	My Moh	- 060	421.5	MIDLAND TX 49705	DO NORTH A ST	ENVIRONMENTAL	JEE COLE	
6	11/11/19 1200 2 has that I so		Date/Time Relinquished by /Circ	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.	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 stands of service. Xenco will be liable only for the cost of samples and shall assigns stands.	Cu Fe			9,	0.5'	2'	***************************************	0.5	2,	0.5	2'		Num TPI BTE	nber H	of (E	Con	ttain	ers 80	30			5 DAY	Code	Turn Around ANALYSIS	acole @ Itenv.com of abyers @ Itenv.com		SICH ENGREENE ST	SION TO COCKOY	Y	Bill to: (If different) KYLE LITTRELL	Į,
	Ser 611/11 m	nature) Received by: (Signature) Date/Time		to circumstances beyond the control dunless previously negotiated.	rino (N) SE AG 11 0 1631 / 245.1 / 7470 / 7471 : Hg	Pb Mg Mn Mo Ni K Se Ag SiO2 Ne												Sample Comments	received by 4:00pm	TAT starts the day recevied by the lab. if	Zn Acetate+ NaOH: Zn	NaOH: Na	HCL: HL	H2S04: H2	HNO3: HN	None: NO	MeOH: Me	rieservanve codes	REQUEST		Reporting:Level II	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	mi beach, FL (551) 689-6/01 WWW.XENCO.com Page of L	

Revised Date 022619 Rev. 2019.1

ABORATORIES

Project Manager: Company Name:

AIMEE

COLE

Company Name:

OLX

ENERGY

Address:

Bill to: (if different) KYLE LITTRELL

City, State ZIP: Address:

Email: acole@ Henricom & abyes@ Henricom

City, State ZIP: CARLSBAD NM 88220

3104 E. GREENE

MIDLAND IX 49705 3300 NORTH A ST LT ENVIRONMENTAL

Chain of Custody

Work Order No: Lett 857

Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Craslbad, NM (432) 704-5440 Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

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

Work Order Comments Program: UST/PST PRP Brownfields RRC Superfund State of Project: Reporting: Level III PST/UST TRRP Level IV Deliverables: EDD ADAPT Other: Preservative Codes
es d

																Dab					10					
		Emir Bres	Relinquished by: (Signature)	Notice: Signature of this document an of service. Xenco will be liable only fo of Xenco. A minimum charge of \$75.0	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		PHOAA	PHOG	PHOSA	PHOS	PHO+A	PHOT	PHOGA	PHO	PHOSA	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	PO# 2RP-	Sampler's Name: Anna	Project Location Rural	Project Number: 0129 19 124	Project Name: Corral Canyon
		h	re)	d relinquishment of san r the cost of samples a 0 will be applied to each	200.8 / 6020: Metal(s) to be ana		V	5	N	S	n	N	N	N	N	Matrix	Yes No N/A	Yes Ne N/A	Yes No		Temp Blank:	- 3713		Eddy	119124	al Canyon
	1	ON THE	Received b	nples constitutes nd shall not assur h project and a ch			4							-	10/29/19	Date Sampled	Total	Correc	19	See se	Yes No	Quote #:		County		14
		,	Received by: (Signature)	a valid purchase ome any responsible arge of \$5 for each	8RCRA 1:		1405	1400	1355	1345	1330	1320	1310	1300	1240	Time Sampled	Total Containers:	Correction Factor:		hermometer ID	Wet Ice:		Due Date:	Rush:	Routine	Turi
			e)	order from client or lity for any losse h sample submitt	13PPM Texas 11 Al Sb As Ba Be LP 6010: 8RCRA Sb As Ba Be Cd (2'	0.5	21	0.5	2'	0.5'	2,	0.5	2'	Depth				0	Yes No	4	te:	Rush: 5 PAY		Turn Around
	, ,	1/1	-	company t s or expen ed to Xeno	s 11 A RA Sb		-	-	-	-	-	-	-	-	-	Numb	er o	f Co							Code	P
		19 1	Date/Time	o Xenco, i ses incurr so, but not	As Ba	-			>		×					TPH		_	_)15					
		1209	ne	ts affiliate ed by the analyzed.	s Ba B Be Cd											BTE)					27					
6	4	2 2	R	s and sub- client if su These ter	e B Co											CVIII	N ICA			(1)	20	0-	-			
		Maria	Relinquished by: (Signature)	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.	8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631																					ANALYSIS REQUEST
	(0 1	Rece	d conditions Id the control otlated.	In Mo Ni K																					T
		2	Received by: (Signature)		Se Ag SiO2																					
	1	2	gnature)		2 Na Sr Tl Sn U 1631 / 245.1 /											(0)		TAT start	Zn Acet	NaOH: Na	HCL: HL	H2S04: H2	HNO3: HN	None: NO	МеОН: Ме	70
Revised Date 022619 Rev. 2019.1		14,119,359	Date/Time		Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg											Sample Comments	received by 4:00pm	TAT starts the day recevied by the lab, if	Zn Acetate+ NaOH: Zn	Va	1	H2	I	Ō	Me	Preservative Codes

Analytical Report 642948

for

LT Environmental, Inc.

Project Manager: Dan Moir Coral Canyon Fed 4H 012919124 15-NOV-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



15-NOV-19

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

Reference: XENCO Report No(s): 642948

Coral Canyon Fed 4H

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 642948. 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. 642948 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

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 642948

LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	11-12-19 12:20	2 ft	642948-001

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Coral Canyon Fed 4H

 Project ID:
 012919124
 Report Date:
 15-NOV-19

 Work Order Number(s):
 642948
 Date Received:
 11/12/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3107284 BTEX by EPA 8021B

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

Certificate of Analysis Summary 642948

LT Environmental, Inc., Arvada, CO

Project Name: Coral Canyon Fed 4H

Date Received in Lab: Tue Nov-12-19 03:53 pm

Report Date: 15-NOV-19 **Project Manager:** Jessica Kramer

Project Id: 012919124
Contact: Dan Moir

Project Location:

	Lab Id:	642948-001			
Analysis Requested	Field Id:	FS01			
Anatysis Requesteu	Depth:	2- ft			
	Matrix:	SOIL			
	Sampled:	Nov-12-19 12:20			
BTEX by EPA 8021B	Extracted:	Nov-12-19 17:30			
	Analyzed:	Nov-13-19 04:25			
	Units/RL:	mg/kg RL			
Benzene		< 0.000996 0.000996			
Toluene		< 0.000996 0.000996			
Ethylbenzene		< 0.000996 0.000996			
m,p-Xylenes		< 0.00199 0.00199			
o-Xylene		< 0.000996 0.000996			
Total Xylenes		< 0.000996 0.000996			
Total BTEX		< 0.000996 0.000996			
Chloride by EPA 300	Extracted:	Nov-12-19 17:30			
	Analyzed:	Nov-13-19 11:13			
	Units/RL:	mg/kg RL			
Chloride	·	128 9.92			
TPH by SW8015 Mod	Extracted:	Nov-13-19 17:11			
	Analyzed:	Nov-14-19 03:16			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0			
Diesel Range Organics (DRO)		<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0			
Total GRO-DRO		<50.0 50.0			
Total TPH		<50.0 50.0			

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

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id: **FS01**

Soil Matrix:

Date Received:11.12.19 15.53

Lab Sample Id: 642948-001

Date Collected: 11.12.19 12.20

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst:

MAB

Date Prep: 11.12.19 17.30 % Moisture: Basis:

Wet Weight

Seq Number: 3107444

Parameter Cas Number Result RL Units **Analysis Date** Flag Dil Chloride 16887-00-6 128 9.92 11.13.19 11.13 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DTH

% Moisture:

DTH Analyst:

Tech:

11.13.19 17.11 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	11.14.19 03.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	11.14.19 03.16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	11.14.19 03.16	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	11.14.19 03.16	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	11.14.19 03.16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	115	%	70-135	11.14.19 03.16		
o-Terphenyl	8	4-15-1	119	%	70-135	11.14.19 03.16		



LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id: FS01 Matrix: Soil Date Received:11.12.19 15.53

Lab Sample Id: 642948-001 Date Collected: 11.12.19 12.20 Sample Depth: 2 ft

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

% Moisture:

Analyst: MAB Date Prep: 11.12.19 17.30 Basis: Wet Weight

Seq Number: 3107284

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Toluene	108-88-3	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Ethylbenzene	100-41-4	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	11.13.19 04.25	U	1
o-Xylene	95-47-6	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Total Xylenes	1330-20-7	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Total BTEX		< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.13.19 04.25		
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.13.19 04.25		



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.

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

^{**} Surrogate recovered outside laboratory control limit.



Parameter

QC Summary 642948

LT Environmental, Inc.

Coral Canyon Fed 4H

LCSD

Result

Analytical Method: Chloride by EPA 300

Seq Number: 3107444

MB Sample Id: 7690121-1-BLK

Matrix: Solid

LCS

Result

Spike

Amount

LCS Sample Id: 7690121-1-BKS

Prep Method: Date Prep:

11.12.19 LCSD Sample Id: 7690121-1-BSD

%RPD RPD Limit Units Analysis Flag

E300P

11.13.19 08:44 Chloride <10.0 250 251 100 250 100 90-110 0 20 mg/kg

LCS

%Rec

Analytical Method: Chloride by EPA 300

Seq Number: 3107444

Matrix: Soil

Prep Method: Date Prep:

E300P 11.12.19

Parent Sample Id: 642845-021 MS Sample Id: 642845-021 S MSD Sample Id: 642845-021 SD

Parent Spike MS MS **Parameter**

Result

MR

Result

MSD MSD Limits

Limits

LCSD

%Rec

%RPD RPD Limit Units

Analysis Flag

Flag

Flag

Date

Amount Result %Rec Result %Rec Date Chloride 37.9 201 241 101 247 105 90-110 2 20 mg/kg 11.13.19 09:01

Analytical Method: Chloride by EPA 300

3107444 Seq Number:

Matrix: Soil

Prep Method: Date Prep:

E300P

11.12.19

642845-031 S MSD Sample Id: 642845-031 SD MS Sample Id: Parent Sample Id: 642845-031

%RPD RPD Limit Units Spike MS MS Parent **MSD** MSD Limits **Analysis Parameter** Result Amount Result %Rec Date Result %Rec Chloride 324 200 523 100 521 99 90-110 0 20 11.13.19 10:26 mg/kg

Analytical Method: TPH by SW8015 Mod

3107504 Seq Number:

Matrix: Solid

SW8015P

Prep Method: 11.13.19

Date Prep: 7690340-1-BKS LCSD Sample Id: 7690340-1-BSD LCS Sample Id: MB Sample Id: 7690340-1-BLK LCS LCSD %RPD RPD Limit Units MB Spike LCS Limits **Analysis**

LCSD **Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 958 96 980 70-135 2 11.14.19 00:55 < 50.0 1000 98 35 mg/kg 11.14.19 00:55 971 97 987 70-135 2 35 Diesel Range Organics (DRO) 1000 99 < 50.0 mg/kg

MB MB LCS LCS LCSD Limits LCSD Units Analysis **Surrogate** Flag %Rec Flag Flag %Rec %Rec Date 1-Chlorooctane 120 112 116 70-135 % 11.14.19 00:55 107 11.14.19 00:55 o-Terphenyl 123 104 70-135 %

Analytical Method: TPH by SW8015 Mod

Seg Number: 3107504 Matrix: Solid

Prep Method: Date Prep:

SW8015P 11.13.19

MB Sample Id: 7690340-1-BLK

MR **Parameter** Result

Units Analysis mg/kg

Flag Date

Motor Oil Range Hydrocarbons (MRO)

< 50.0

11.14.19 00:35

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result

= MSD/LCSD Result

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



Seq Number:

Parameter

Parent Sample Id:

QC Summary 642948

LT Environmental, Inc.

Coral Canyon Fed 4H

MSD

Result

MSD

%Rec

Limits

Analytical Method: TPH by SW8015 Mod

3107504 Matrix: Soil

Spike

Amount

Parent

Result

642783-010 MS Sample Id: 642783-010 S

MS

Result

Prep Method: SW8015P

Date Prep: 11.13.19

MSD Sample Id: 642783-010 SD

%RPD RPD Limit Units Analysis Date Flag

SW5030B

Flag

Flag

Gasoline Range Hydrocarbons (GRO) 70-135 11.14.19 01:55 < 50.3 1010 1100 109 921 92 18 35 mg/kg 40.9 1010 936 70-135 21 35 11.14.19 01:55 Diesel Range Organics (DRO) 1150 110 90 mg/kg

MS

%Rec

MS MS MSD MSD Limits Units **Analysis Surrogate** %Rec Flag Flag Date %Rec 1-Chlorooctane 133 99 70-135 % 11.14.19 01:55 o-Terphenyl 128 94 70-135 % 11.14.19 01:55

Analytical Method: BTEX by EPA 8021B Prep Method:

Seq Number: 3107284 Matrix: Solid Date Prep: 11.12.19

MB Sample Id: 7690178-1-BLK LCS Sample Id: 7690178-1-BKS LCSD Sample Id: 7690178-1-BSD

%RPD RPD Limit Units Spike LCS LCS MR Limits Analysis LCSD LCSD **Parameter** Amount Result %Rec Date Result Result %Rec 0.0892 11.12.19 21:12 Benzene < 0.00100 0.100 89 0.0933 93 70-130 4 35 mg/kg Toluene < 0.00100 0.100 0.0910 91 0.0939 94 70-130 35 mg/kg 11.12.19 21:12 3 11.12.19 21:12 0.100 0.0914 91 0.0943 71-129 3 35 Ethylbenzene < 0.00100 94 mg/kg 70-135 35 11.12.19 21:12 m,p-Xylenes < 0.00200 0.200 0.195 98 0.201 101 3 mg/kg o-Xylene 0.0992 99 71-133 35 11.12.19 21:12 < 0.00100 0.100 0.102 102 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1.4-Difluorobenzene 100 102 103 70-130 % 11.12.19 21:12 11.12.19 21:12 4-Bromofluorobenzene 110 115 114 70-130 %

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

 Seq Number:
 3107284
 Matrix:
 Soil
 Date Prep:
 11.12.19

 Parent Sample Id:
 642845-021
 MS Sample Id:
 642845-021 S
 MSD Sample Id:
 642845-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date
Benzene	< 0.000990	0.0990	0.0744	75	0.0941	93	70-130	23	35	mg/kg	11.13.19 09:46
Toluene	< 0.000990	0.0990	0.0770	78	0.0953	94	70-130	21	35	mg/kg	11.13.19 09:46
Ethylbenzene	< 0.000990	0.0990	0.0782	79	0.0957	95	71-129	20	35	mg/kg	11.13.19 09:46
m,p-Xylenes	< 0.00198	0.198	0.168	85	0.205	101	70-135	20	35	mg/kg	11.13.19 09:46
o-Xylene	< 0.000990	0.0990	0.0823	83	0.102	101	71-133	21	35	mg/kg	11.13.19 09:46

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		105		70-130	%	11.13.19 09:46
4-Bromofluorobenzene	113		120		70-130	%	11.13.19 09:46

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 Total 200.7 / 6010

200.8 / 6020:

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

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

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

FSO1

5

MILLIAM

1220

2

Nı

Relinquished by: (Signature)

Received by: (Signature)

W/12/19 15:53 Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 051418 Rev. 2018.1

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 service. 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. 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

Sample Comments	TPH (BTEX	Time Depth	Matrix Sampled Sa	ntification	Sample Identification
	EPA	tainers: 1	N/A Total Containers:	Yes	Sample Custody Seals
IAT stants the day received by 4:30pm	8015	Factor: -O. L	No N/A Correction Factor:	Yes	Cooler Custody Seals
	5) B021	+00+	No	Yes	Received Intact:
)	Thermometer ID	Therr	2	Temperature (°C):
	S	Wet Ice: (ves) No	Temp Blank: Yes No		SAMPLE RECEIPT
		Due Date:	Benjamin-Betitt Lurs Del 16/1	Benjamin Bel	Sampler's Name:
		Rush:			P.O. Number:
		Routine	શુમ	O199 19184	Project Number:
	ANALYSIS REQUEST	Turn Around	onyon Fed 74	CoralCo	Project Name:
	com	Email: Idelval@Itenv.com		432.236.3849	Phone:
Deliverables: EDD ADaPT Other:	Carlsbad, NM 88220	City, State ZIP:	9705	Midland, TX 79705	City, State ZIP:
Penortina: evel III PST/UST RRP Bvel IV	3104 E Green Street	Address:	Street	3300 North A Street	Address:
Program: UST/PST LPRP L Brownfields LKC Luperium	XTO Energy	Company Name:	ental, Inc., Permian office	LT Environmental, Inc.,	Company Name:
Work Order Comments	Kyle Littrell	Bill to: (if different)		Dan Moir	Project Manager:
WV	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston,TX (281) 240-420 Midland,TX (432-704-544 (575-392-7550) Phoenix,A		XENCO	(EX
Work Order No: U42948	Chain of Custody				

Released to	Imaging:	9/14/2021	9:57:41 AM

1631 / 245.1 / 7470 / 7471 : Hg



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11/12/2019 03:53:00 PM

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

Work Order #: 642948

Analyst:

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		2.6	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	,	Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquis	hed/ received?	Yes	
#10 Chain of Custody agrees with sample I	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	pace?	N/A	

Checklist completed by:	Mulh	Date: 11/12/2019
	Elizabeth McClellan	Date. <u>11/12/2019</u>
Checklist reviewed by:	Jessica Vramer	Date: 11/14/2019

Jessica Kramer

PH Device/Lot#:

Analytical Report 642951

for

LT Environmental, Inc.

Project Manager: Dan Moir Coral Canyon Fed 4H 012919124 15-NOV-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



15-NOV-19

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

Reference: XENCO Report No(s): 642951

Coral Canyon Fed 4H

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 642951. 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. 642951 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

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 642951

LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	11-12-19 12:34	0.5 - 2 ft	642951-001

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Coral Canyon Fed 4H

 Project ID:
 012919124
 Report Date:
 15-NOV-19

 Work Order Number(s):
 642951
 Date Received:
 11/12/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3107284 BTEX by EPA 8021B

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

Batch: LBA-3107504 TPH by SW8015 Mod

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

re-analysis.

Samples affected are: 642951-001.

Certificate of Analysis Summary 642951

LT Environmental, Inc., Arvada, CO Project Name: Coral Canyon Fed 4H

Project Id: 012919124 **Contact:**

Project Location:

Dan Moir

Date Received in Lab: Tue Nov-12-19 03:53 pm

Report Date: 15-NOV-19 Project Manager: Jessica Kramer

	Lab Id:	642951-00	1			
Analysis Requested	Field Id:	SW01				
Analysis Requested	Depth:	0.5-2 ft				
	Matrix:	SOIL				
	Sampled:	Nov-12-19 12	2:34			
BTEX by EPA 8021B	Extracted:	Nov-12-19 1	7:30			
	Analyzed:	Nov-13-19 0	4:44			
	Units/RL:	mg/kg	RL			
Benzene	·	< 0.000988 0	000988			
Toluene		<0.000988 0	000988			
Ethylbenzene		<0.000988 0	000988			
m,p-Xylenes		< 0.00198	0.00198			
o-Xylene		<0.000988 0				
Total Xylenes		< 0.000988 0	000988			
Total BTEX		< 0.000988 0	000988			
Chloride by EPA 300	Extracted:	Nov-12-19 1	7:30			
	Analyzed:	Nov-13-19 1	1:19			
	Units/RL:	mg/kg	RL			
Chloride		126	9.88			
TPH by SW8015 Mod	Extracted:	Nov-13-19 1	7:11			
	Analyzed:	Nov-14-19 0	3:36			
	Units/RL:	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3			
Diesel Range Organics (DRO)		<50.3	50.3			
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3			
Total GRO-DRO		<50.3	50.3			
Total TPH		<50.3	50.3			

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

Jessica Vramer



Certificate of Analytical Results 642951

LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id: SW01

Matrix: Soil

Date Received:11.12.19 15.53

Lab Sample Id: 642951-001

Date Collected: 11.12.19 12.34

Sample Depth: 0.5 - 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB MAB % Moisture:

Date Prep: 11.12.19 17.30

Basis:

Wet Weight

Seq Number: 3107444

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 126
 9.88
 mg/kg
 11.13.19 11.19
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:
Analyst:

DTH DTH

Date Prep: 11.13.19 17.11

Basis: Wet Weight

Seq Number: 3107504

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	11.14.19 03.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	11.14.19 03.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	11.14.19 03.36	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	11.14.19 03.36	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	11.14.19 03.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	131	%	70-135	11.14.19 03.36		
o-Terphenyl	84	4-15-1	140	%	70-135	11.14.19 03.36	**	



Lab Sample Id: 642951-001

Certificate of Analytical Results 642951

LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id: SW01 Matrix: Soil

Date Received:11.12.19 15.53

Date Collected: 11.12.19 12.34

Sample Depth: 0.5 - 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method

Prep Method: SW5030B

% Moisture:

Tech: MAB

Analyst: MAB Date Prep: 11.12.19 17.30

Basis: Wet Weight

Seq Number: 3107284

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Toluene	108-88-3	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Ethylbenzene	100-41-4	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	11.13.19 04.44	U	1
o-Xylene	95-47-6	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Total Xylenes	1330-20-7	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Total BTEX		< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	11.13.19 04.44		
4-Bromofluorobenzene		460-00-4	125	%	70-130	11.13.19 04.44		



Flagging Criteria

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

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

^{**} Surrogate recovered outside laboratory control limit.

Flag



QC Summary 642951

LT Environmental, Inc.

Coral Canyon Fed 4H

Analytical Method: Chloride by EPA 300

Seq Number: 3107444 Matrix: Solid

MR

LCS Sample Id: 7690121-1-BKS MB Sample Id: 7690121-1-BLK

Date Prep: 11.12.19

Prep Method:

LCSD Sample Id: 7690121-1-BSD

E300P

Spike LCS %RPD RPD Limit Units LCS Limits LCSD LCSD Analysis **Parameter** Result **Amount** Result %Rec %Rec Date Result

11.13.19 08:44 Chloride <10.0 250 251 100 250 100 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3107444 Matrix: Soil 11.12.19 Date Prep:

Parent Sample Id: 642845-021 MS Sample Id: 642845-021 S MSD Sample Id: 642845-021 SD

Parent Spike MS MS Limits %RPD RPD Limit Units **MSD MSD Analysis** Flag **Parameter** Result Amount Result %Rec Result %Rec Date Chloride 37.9 201 241 101 247 105 90-110 2 20 mg/kg 11.13.19 09:01

Analytical Method: Chloride by EPA 300

E300P Prep Method: 3107444 Matrix: Soil Seq Number: Date Prep: 11.12.19

642845-031 S MSD Sample Id: 642845-031 SD MS Sample Id: Parent Sample Id: 642845-031

%RPD RPD Limit Units Spike MS MS Parent **MSD** MSD Limits **Analysis** Flag **Parameter** Result Amount Result %Rec Date Result %Rec Chloride 324 200 523 100 521 99 90-110 0 20 11.13.19 10:26 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3107504 Seq Number: Matrix: Solid Date Prep: 11.13.19

7690340-1-BKS LCSD Sample Id: 7690340-1-BSD LCS Sample Id: MB Sample Id: 7690340-1-BLK

LCS LCSD %RPD RPD Limit Units MB Spike LCS Limits **Analysis** LCSD Flag **Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 958 96 980 70-135 2 11.14.19 00:55 < 50.0 1000 98 35 mg/kg 11.14.19 00:55 971 97 987 70-135 2 35 Diesel Range Organics (DRO) 1000 99 < 50.0 mg/kg

MB MB LCS LCS LCSD Limits LCSD Units Analysis **Surrogate** Flag %Rec Flag Flag %Rec %Rec Date 1-Chlorooctane 120 112 116 70-135 % 11.14.19 00:55 107 11.14.19 00:55 o-Terphenyl 123 104 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3107504 Matrix: Solid Date Prep: 11.13.19

MB Sample Id: 7690340-1-BLK

MR Units Analysis Flag **Parameter** Result Date 11.14.19 00:35 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result = MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

SW8015P

Prep Method:



Parent Sample Id:

QC Summary 642951

LT Environmental, Inc.

Coral Canyon Fed 4H

Analytical Method: TPH by SW8015 Mod

642783-010

Seq Number: 3107504 Matrix: Soil

MS Sample Id: 642783-010 S

SW8015P Prep Method:

Date Prep: 11.13.19

MSD Sample Id: 642783-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.3	1010	1100	109	921	92	70-135	18	35	mg/kg	11.14.19 01:55	
Diesel Range Organics (DRO)	40.9	1010	1150	110	936	90	70-135	21	35	mg/kg	11.14.19 01:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	133		99		70-135	%	11.14.19 01:55
o-Terphenyl	128		94		70-135	%	11.14.19 01:55

Analytical Method: BTEX by EPA 8021B

Seq Number: 3107284 Matrix: Solid

Prep Method: Date Prep:

SW5030B

Flag

Flag

11.12.19 LCS Sample Id: 7690178-1-BKS LCSD Sample Id: 7690178-1-BSD MB Sample Id: 7690178-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date
Benzene	< 0.00100	0.100	0.0892	89	0.0933	93	70-130	4	35	mg/kg	11.12.19 21:12
Toluene	< 0.00100	0.100	0.0910	91	0.0939	94	70-130	3	35	mg/kg	11.12.19 21:12
Ethylbenzene	< 0.00100	0.100	0.0914	91	0.0943	94	71-129	3	35	mg/kg	11.12.19 21:12
m,p-Xylenes	< 0.00200	0.200	0.195	98	0.201	101	70-135	3	35	mg/kg	11.12.19 21:12
o-Xylene	< 0.00100	0.100	0.0992	99	0.102	102	71-133	3	35	mg/kg	11.12.19 21:12
~	МВ	MB	L	CS I	LCS	LCS	D LCS	D L	imits	Units	Analysis

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Cints	Date
1,4-Difluorobenzene	100		102		103		70-130	%	11.12.19 21:12
4-Bromofluorobenzene	110		115		114		70-130	%	11.12.19 21:12

Analytical Method: BTEX by EPA 8021B

Seq Number: 3107284 Parent Sample Id: 642845-021

Matrix: Soil MS Sample Id: 642845-021 S Prep Method: SW5030B Date Prep: 11.12.19

MSD Sample Id: 642845-021 SD

%RPD RPD Limit Units Parent Spike MS MS Limits Analysis **MSD** MSD **Parameter** Result Amount Result %Rec Date Result %Rec < 0.000990 11.13.19 09:46 0.0990 0.074475 0.0941 93 Benzene 70-130 23 35 mg/kg Toluene < 0.000990 0.0990 0.077078 0.0953 94 70-130 21 35 mg/kg 11.13.19 09:46 < 0.000990 0.0957 71-129 20 11.13.19 09:46 Ethylbenzene 0.0990 0.0782 79 95 35 mg/kg 11.13.19 09:46 0.205 20 m,p-Xylenes < 0.00198 0.198 0.168 85 101 70-135 35 mg/kg 11.13.19 09:46 < 0.000990 0.0990 71-133 o-Xylene 0.0823 21 35 83 0.102 101 mg/kg

Surrogate	MS MS %Rec Flag	MSD MSD %Rec Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99	105	70-130	%	11.13.19 09:46
4-Bromofluorobenzene	113	120	70-130	%	11.13.19 09:46

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

[D] = 100*(C-A) / BRPD = 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 AddedD = MSD/LCSD % Rec

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er: Dan Moir	XENC
	S.O.

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X	YENGO	Houston,TX (281) 240-4200	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334		
E	BORATORIES	Midland,TX (432-704-5440)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296		â
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Revised Date 051418 Rev. 2018.1



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11/12/2019 03:53:00 PM

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

Temperature Measuring device used: T-NM-007

Date: 11/14/2019

Work Order #: 642951

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		2.6	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	?	Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquis	hed/ received?	Yes	
#10 Chain of Custody agrees with sample I	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero heads	pace?	N/A	

Analyst:		PH Device/Lot#:		
	Checklist completed by:	Elizabeth McClellan	Date: 11/12/2019	
	Checklist reviewed by:	lession Vramer		

Jessica Kramer

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

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

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 4879

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	4879
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	9/14/2021