District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

_)

Incident ID	NRM2011537308
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude _____

Site Name Remuda 500 CTB	Site Type Central Tank Battery
Date Release Discovered 04/10/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
0	25	238	29E	Eddy

Surface Owner: 🗷 State 🗌 Federal 🗌 Tribal 🗌 Private (Name:____

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 0.12	Volume Recovered (bbls) 0
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
the gro	normal operations, the VRT compressor went down set und just below the flare. Fire burned itself out and there tor has been retained to complete remediation activities	

Page 1 lof 45

<i>ceived by OCD: 7/9/2020</i> rm C-141	6:29:58 PMM State of New Mexico		Incident ID	Pilge 2 20 NRM2011537308
ge 2	Oil Conservation Division		District RP	NIXIVI2011337308
			Facility ID	
			Application ID	
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Was this a major release as defined by	If YES, for what reason(s) does the resp An unauthorized release of a volume the		•	
19.15.29.7(A) NMAC?	An unautionzed release of a volume in	at results in a fire of is	the result of a fire.	
🖌 Yes 🗌 No				
If YES was immediate n	otice given to the OCD? By whom? To w	hom? When and by w	hat means (phone_err	nail_etc)?
	ke Bratcher; Rob Hamlet; Victoria Veneg	•		
	n Friday, April 10, 2020 at 3:52 p.m.	, , , ,	,	
	Initial	Response		
The responsible	party must undertake the following actions immedia	-	e a safety hazard that woul	d result in iniury
The responsible			e a sajery nazara inar noar	
The source of the rele	ease has been stopped.			
	**	nd the environment		
1 (The imported area he	as been secured to protect human health a	na the environment.		
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NRM2011537308

Location:	Remuda 500 CTB		
Spill Date:	4/10/2020		
	Area 1		
Approximate A	rea =	2205.00	sq. ft.
Average Satura	ation (or depth) of spill =	0.13	inches
Average Poros	ty Factor =	0.03	
	VOLUME OF LEAK		
Condensate		0.12	bbls

TOTAL VOLUME OF LEAK		
Total Condensate	0.12	bbls
TOTAL VOLUME RECOVERED		
Total Condensate	0.00	bbls

Received by OCD: 7/9/2020 6:29:58 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 4 of	45
Incident ID	NRM2011537308	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	$\leq 50'$ (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.
- X Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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<i>eceived by OCD: 7/9/2020</i> form C-141	6:29:58 PM State of New Mex	ico	Incident ID	Page 5 of NRM2011537308
Page 4	Oil Conservation Div	vision	District RP	111112011557500
C			Facility ID	
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regulations all operators are re public health or the environme failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name: Kyle Signature:	nation given above is true and complete equired to report and/or file certain relevant. The acceptance of a C-141 report e and remediate contamination that per a C-141 report does not relieve the op	lease notifications and perform by the OCD does not relieve the ose a threat to groundwater, sur perator of responsibility for com	corrective actions for rele ne operator of liability sho face water, human health	ases which may endanger uld their operations have or the environment. In
OCD Only				

Oil Conservation Division

	Page o of 4
Incident ID	NRM2011537308
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature: Juliub	06/29/20
email:Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	

Page 6

LT Environmental, Inc.

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

A proud member of WSP

June 29, 2020

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

RE: Closure Request Remuda 500 CTB Incident Number NRM2011537308 Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Remuda 500 CTB (Central Tank Battery; Site) in Unit O, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess the presence or absence of impacts to soil following a condensate release at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2011537308.

RELEASE BACKGROUND

On April 10, 2020, the VRT compressor went down, sending condensate out of the flare. Approximately 0.12 barrels (bbls) of condensate were released and resulted in a small fire on the ground directly beneath the flare. The fire consumed the released condensate and burned itself out. There were no standing fluids to recover. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on April 10, 2020. A Release Notification and Corrective Action Form C-141 (Form C-141) was submitted to the NMOCD on April 23, 2020 and was assigned Incident Number NRM2011537308.

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 approximately 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321717103561001, located approximately 1.15 miles north of the Site. The groundwater well has a reported depth to groundwater of 50 feet bgs and the total depth of the well is unknown. New



Bratcher, M. Page 2

Mexico Office of the State Engineer (NMOSE) well C-04326, located 1.6 miles northwest of the Site, was most recently measured in May 2019 and has a reported depth to water of 54 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1.

The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash, located approximately 45 feet west 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 not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On May 13, 2020, LTE personnel inspected the Site to evaluate the release extent based on information provided in the Form C-141 and visual observations. Indications of the release and fire were observed directly beneath the flare stack; the stained area measured approximately 45 square feet. The release extent was mapped utilizing a handheld Global Positing System (GPS) and is depicted on Figure 2. LTE personnel collected one preliminary soil sample (SS01) within the release extent from a depth of 0.5 feet bgs. Photographic documentation was conducted at the Site and a photographic log is included in Attachment 1.

On May 27, 2020, LTE personnel returned to the Site to oversee additional soil assessment activities. One borehole (BH01) was advanced using a stainless-steel hand auger, to a depth of 2 feet bgs within the release extent. Borehole BH01 was advanced at the location of preliminary soil sample SS01. Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[©] chloride QuanTab[©] test strips, respectively. Field screening results and observations for the borehole were logged on a lithologic/soil sampling log, which is included in Attachment 2. The borehole and soil sample locations are presented on Figure 2.



Bratcher, M. Page 3

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

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil sample SS01 collected at 0.5 feet bgs and in delineation soil sample BH01 collected at 2 feet bgs. The laboratory analytical results are summarized in Table 1 and the laboratory analytical reports are provided in Attachment 3.

CLOSURE REQUEST

Preliminary soil sample SS01 and delineation soil sample BH01 were collected from within the release extent from depths ranging from 0.5 feet to 2 feet bgs to assess for the presence or absence of soil impacts as a result of the April 10, 2020 condensate release and fire at the Site. Laboratory analytical results for the soil samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of the soil samples indicated volatile aromatic hydrocarbons and chloride concentrations were not elevated and petroleum hydrocarbon odors were not identified within the release extent.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria, no impacted soil was identified, and no soil excavation was warranted. XTO requests NFA for this release event and respectfully requests closure of Incident Number NRM2011537308.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Elizabeth Naka

Elizabeth Naka Staff Environmental Scientist

Ushley L. ager

Ashley L. Ager, P.G. Senior Geologist



Bratcher, M. Page 4

cc: Kyle Littrell, XTO United States Bureau of Land Management – New Mexico Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:

- Figure 1 Site Location Map
- Figure 2 Soil Sampling Locations
- Table 1Soil Analytical Results

Attachment 1 Photographic Log

Attachment 2 Lithologic/Soil Sampling Logs

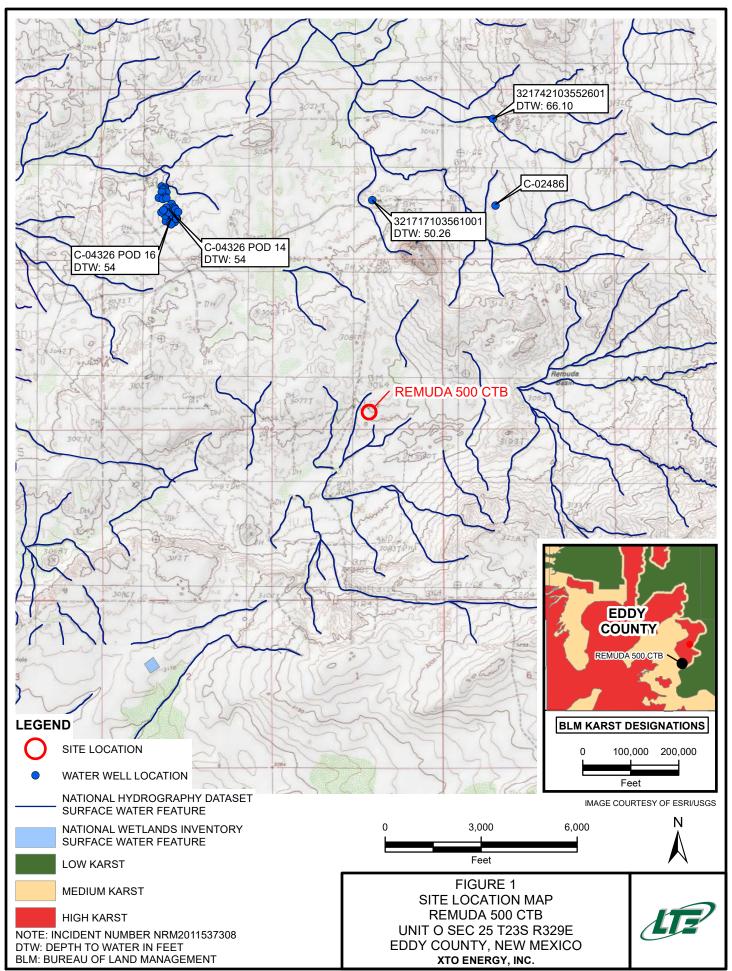
Attachment 3 Laboratory Analytical Reports

Appendix 1 Referenced Well Records

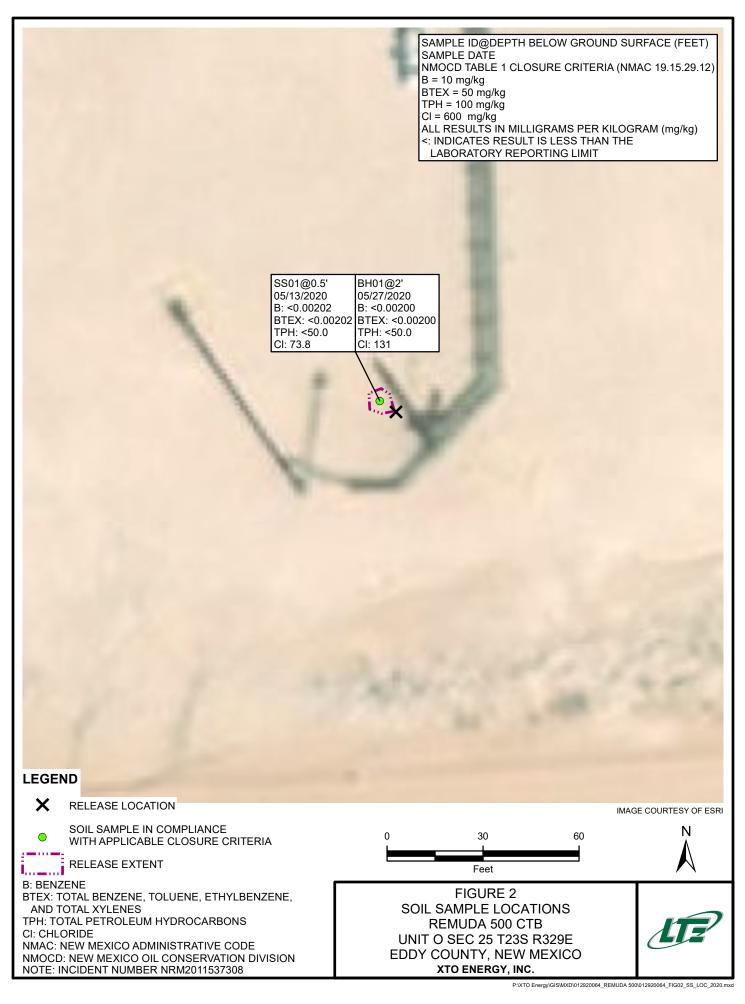
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FIGURES





P:\XTO Energy\GIS\MXD\012920064_REMUDA 500\012920064_FIG01_SL_RECEPTOR_2020.mxd



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TABLES



TABLE 1 SOIL ANALYTICAL RESULTS

REMUDA 500 CTB INCIDENT NUMBER NRM2011537308 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)
NMOCD Table	e 1 Closure Crit	eria	10	NE	NE	NE	50	NE	NE	NE	NE	100	600
SS01	0.5	05/13/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	73.8
BH01	2	05/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	131

Notes:

- bgs below ground surface
- BTEX benzene, toluene, ethylbenzene, and total xylenes
- DRO diesel range organics
- GRO gasoline range organics
- mg/kg milligrams per kilogram

MRO - motor oil range organics NMAC - New Mexico Administrative Code NMOCD - New Mexico Oil Conservation Division NE - not established TPH - total petroleum hydrocarbons Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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



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PHOTOGRAPHIC LOG



Photograph 1: East facing view of the release area.



Photograph 2: East facing view of the release area.

Remuda 500 CTB NRM2011537308 Photographs Taken: May 13 and May 27, 2020

Page 1 of 1



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o Lat/Lo	LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 A proud member of WSP Compliance · Engineering · Remediation LITHOLOGIC / SOIL SAMPLING LOG						BH or PH Name: BH01 Site Name: RP or Incident Numbe LTE Job Number: Logged By: EM Hole Diameter:	Remuda 50 er: 12920064		Hand Auger		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/F	Remarks	
D	347 308	14.3	N	BH01 BH01A		$ \begin{array}{c} 0 \\ - 1 \\ - 2 \\ - 3 \\ - 4 \\ - 5 \\ - 6 \\ - 7 \\ - 8 \\ - 9 \\ - 10 \\ - 11 \\ - 12 \\ \end{array} $	SP	Light red Light red Total De	-			

•

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS





Project Id: 012920064 Dan Moir

Contact:

Project Location:

Certificate of Analysis Summary 661667

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 500 CTB

Date Received in Lab: Thu 05.14.2020 15:26 Report Date: 05.18.2020 13:46 Project Manager: Jessica Kramer

	Lab Id:	661667-001			
Analysis Pognosted	Field Id:	SS01			
Analysis Requested	Depth:	0.5- ft			
	Matrix:	SOIL			
	Sampled:	05.13.2020 15:20			
BTEX by EPA 8021B	Extracted:	05.14.2020 16:00			
	Analyzed:	05.14.2020 23:33			
	Units/RL:	mg/kg RL			
Benzene		<0.00202 0.00202			
Toluene		<0.00202 0.00202			
Ethylbenzene		<0.00202 0.00202			
m,p-Xylenes		<0.00403 0.00403			
o-Xylene		< 0.00202 0.00202			
Total Xylenes		< 0.00202 0.00202			
Total BTEX		<0.00202 0.00202			
Chloride by EPA 300	Extracted:	05.14.2020 17:43			
	Analyzed:	05.14.2020 21:17			
	Units/RL:	mg/kg RL			
Chloride		73.8 9.96			
TPH by SW8015 Mod	Extracted:	05.14.2020 17:30			
	Analyzed:	05.15.2020 13:09			
	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			

Page 1 of 12

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

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

Jessica Kramer Project Manager

Final 1.000

Analytical Report 661667

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 500 CTB

012920064

05.18.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) 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)



05.18.2020

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

Reference: XENCO Report No(s): 661667 Remuda 500 CTB 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) 661667. 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. 661667 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,

Jession Vermer

Jessica Kramer Project Manager

A Small Business and Minority Company

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



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Sample Cross Reference 661667

LT Environmental, Inc., Arvada, CO

Remuda 500 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	05.13.2020 15:20	0.5 ft	661667-001

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CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Remuda 500 CTB

 Project ID:
 012920064

 Work Order Number(s):
 661667

Report Date: 05.18.2020 Date Received: 05.14.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



o-Terphenyl

.

Certificate of Analytical Results 661667

LT Environmental, Inc., Arvada, CO

Remuda 500 CTB

Sample Id:	SS01		Matrix:	Soil		Date Received	d:05.14.	2020 15:	26
Lab Sample I	d: 661667-001		Date Collected: 05.13.2020 15:20 Sample Depth: 0.5 ft						
Analytical Mo	ethod: Chloride by EPA	. 300				Prep Method:	E300F)	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep	p: 05.14.2020 17:43	3	Basis:	Wet W	Veight	
Seq Number:	3126031								
Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Chloride		16887-00-6	73.8	9.96	mg/kg	05.14.2020 2	1:17		1

Analytical Method: TPH by SW80	15 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	rep: 05.	14.2020 17:30		Basis: W	/et Weight	
Seq Number: 3126199								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	05.15.2020 13:09	9 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	05.15.2020 13:09	9 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	05.15.2020 13:09	9 U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	05.15.2020 13:09	Ð U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	05.15.2020 13:09	9 U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	103	%	70-135	05.15.2020 13	:09	

84

84-15-1

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70-135

%

05.15.2020 13:09



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Certificate of Analytical Results 661667

LT Environmental, Inc., Arvada, CO Remuda 500 CTB

Sample Id: SS01	Matrix:	Soil	Date Received:05.14.2020 15:26			
Lab Sample Id: 661667-001	Date Collecte	ed: 05.13.2020 15:20	Sample Depth: 0.5 ft			
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3126047	Date Prep:	05.14.2020 16:00	Prep Metho % Moisture Basis:	d: SW5035A : Wet Weight		

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	05.14.2020 23:33	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	05.14.2020 23:33	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	05.14.2020 23:33	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	05.14.2020 23:33	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	05.14.2020 23:33	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	05.14.2020 23:33	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	05.14.2020 23:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	125	%	70-130	05.14.2020 23:33		
1,4-Difluorobenzene		540-36-3	107	%	70-130	05.14.2020 23:33		

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected								
RL Reporting Limit									
MDL Method Detection Limit	SDL Sample De	tection Limit	mit LOD Limit of Detection						
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n					
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/Labo	ratory Control Sample Duplicate					
MD/SD Method Duplicate/Samp	ble Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate					
+ NELAC certification not offered	for this compound.								

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



QC Summary 661667

LT Environmental, Inc. Remuda 500 CTB

Analytical Method: Seq Number: MB Sample Id: Parameter	Chloride b 3126031 7703403-1-		Spike		LCS	7703403-2 LCSD	LCSD	Limits		rep Metho Date Pro D Sample RPD Limit	ep: 05.1	0P 4.2020 3403-1-BSD Analysis Date	Flag
Chloride		<10.0	Amount 250	250	%Rec 100	Result 249	%Rec 100	90-110	0	20	mg/kg	05.14.2020 19:43	
				250	100	249	100	90-110					
Analytical Method: Seq Number:	Chloride by 3126031	y EPA 30)0		Matrix:	Soil			Pi	rep Metho Date Pro		4.2020	
Parent Sample Id:	661663-001					661663-00)1 S		MS		-	663-001 SD	
Parameter	001005 001	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		184	200	372	94	403	110	90-110	8	20	mg/kg	05.14.2020 20:01	
Analytical Method: Seq Number: Parent Sample Id:	Chloride b 3126031 661667-001)0		Matrix: nple Id:	Soil 661667-00	01 S			rep Metho Date Pro D Sample	ep: 05.1	0P 4.2020 667-001 SD	
Parameter		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result 73.8	Amount 200	Result 269	%Rec 98	Result 269	%Rec 98	90-110	0	Limit 20	mg/kg	Date 05.14.2020 21:23	8
Analytical Method:	-									rep Metho	od: SW	8015P	
Seq Number:	3126199				Matrix:	Solid 7703409-1			LCS	Date Pro	-	4.2020 3409-1-BSD	
MB Sample Id:	7703409-1-	dlk MB	Spike	LCS San	LCS	LCSD	LCSD	Limits	%RPD	RPD Sample	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	Result	%Rec	Linits	/oki D	Limit	Cints	Date	Flag
Gasoline Range Hydrocarb		< 50.0	1000	1070	107	933	93	70-135	14	35	mg/kg	05.15.2020 09:41	
Diesel Range Organics	(DRO)	<50.0	1000	1120	112	1070	107	70-135	5	35	mg/kg	05.15.2020 09:41	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		101			35		122			-135	%	05.15.2020 09:41	
o-Terphenyl		111		1	17		122	2	70	-135	%	05.15.2020 09:41	
Analytical Method:	TPH by SV	V8015 M	od						Pı	rep Metho	od: SW	8015P	
Seq Number:	3126199				Matrix: nple Id:	Solid 7703409-1	I-BLK			Date Pro		4.2020	
Parameter				MB							Units	Analysis	Flag
Motor Oil Range Hydrocar	bons (MRO)			Result <50.0							mg/kg	Date 05.15.2020 09:20	
				\ 50.0							ш _б / кд		

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

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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

.

Page 9 of 12

Final 1.000



QC Summary 661667

Prep Method: SW8015P

LT Environmental, Inc.

Remuda 500 CTB

Seq Number:	3126199]	Matrix:	Soil				Date Pr	ep: 05.1	4.2020	
Parent Sample Id:	661663-00	1		MS San	nple Id:	661663-00	01 S		MS	D Sample	e Id: 661	663-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocar	bons (GRO)	<50.3	1010	1010	100	967	97	70-135	4	35	mg/kg	05.15.2020 10:44	
Diesel Range Organics	(DRO)	<50.3	1010	1170	116	1150	116	70-135	2	35	mg/kg	05.15.2020 10:44	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				12	24		119	1	70	-135	%	05.15.2020 10:44	
o-Terphenyl				12	24		123		70	-135	%	05.15.2020 10:44	

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5035A	
Seq Number:	3126047]	Matrix:	Solid				Date Pr	ep: 05.1	14.2020	
MB Sample Id:	7703381-1-BLK		LCS San	nple Id:	7703381-	1-BKS		LCS	D Sample	e Id: 770	3381-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.107	107	0.101	101	70-130	6	35	mg/kg	05.14.2020 16:04	
Toluene	< 0.00200	0.100	0.103	103	0.0974	97	70-130	6	35	mg/kg	05.14.2020 16:04	
Ethylbenzene	< 0.00200	0.100	0.0974	97	0.0926	93	71-129	5	35	mg/kg	05.14.2020 16:04	
m,p-Xylenes	< 0.00400	0.200	0.201	101	0.192	96	70-135	5	35	mg/kg	05.14.2020 16:04	
o-Xylene	< 0.00200	0.100	0.101	101	0.0971	97	71-133	4	35	mg/kg	05.14.2020 16:04	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	107		1	04		100)	70	-130	%	05.14.2020 16:04	
4-Bromofluorobenzene	97		9	93		91		70	-130	%	05.14.2020 16:04	

Analytical Method:	BTEX by EPA 8021	B						Pı	rep Metho	d: SW	5035A	
Seq Number:	3126047			Matrix:	Soil				Date Pre	ep: 05.	14.2020	
Parent Sample Id:	661635-001		MS Sar	nple Id:	661635-00	01 S		MS	D Sample	Id: 661	635-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00198	0.0992	0.107	108	0.0992	100	70-130	8	35	mg/kg	05.14.2020 16:45	
Toluene	0.00986	0.0992	0.106	97	0.0955	87	70-130	10	35	mg/kg	05.14.2020 16:45	
Ethylbenzene	0.0147	0.0992	0.0911	77	0.0894	75	71-129	2	35	mg/kg	05.14.2020 16:45	
m,p-Xylenes	0.0337	0.198	0.191	79	0.183	75	70-135	4	35	mg/kg	05.14.2020 16:45	
o-Xylene	0.0207	0.0992	0.0979	78	0.0939	74	71-133	4	35	mg/kg	05.14.2020 16:45	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		105		70	-130	%	05.14.2020 16:45	

94

4-Bromofluorobenzen	e
+-DIOINOITUOIOUCIIZCII	v

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

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

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

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05.14.2020 16:45

Page 10 of 12

95

Final 1.000

70-130

%

)				Chain of Custody	ustody	Wo	Work Order No:	www weet
X	(ENCO	Houst	ton,TX (281) 240-420	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) Midand TX (439-704-5440) EL Pasa TX (915)585-3443 Lubbock.TX (806)7	louston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midand TX (432-704-5440) FL Paso TX (915)585-3443 Lubbock.TX (806)794-1296			-
		Hobbs, NM (575-3	192-7550) Phoenix, A.	Z (480-355-0900) Atlanta,G	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)		www.xenco.com Pa	Page of
Project Manager:	Dan Moir		Bill to: (if different)	Kyle Littrell			Work Order Comments	ants
	LT Environmental, Inc.,	Permian office	Company Name:	: XTO Energy		Program: UST/PST PRP srownfields		RC uperfund
	3300 North A Street		Address:		et	State of Project:]	
e ZIP:	Midland, TX 79705		City, State ZIP:	Carlsbad, NM 88220	0	Reporting:Level II	ST/UST	
	432.236.3849	Ema	Email: emoreno@ltenv.com	w.com, dmoir@	Blenvicom	Deliverables: EDD	ADaPT	Other:
Name:	Remuda 500	CTB	Turn Around		ANALYSIS REQUEST	EST		Work Order Notes
Project Number:	0		Routine					
P.O. Number:		Rush:	sh:					
Sampler's Name:	Ezequiel Moreno	Du	Due Date:					
SAMPLE RECEIPT	PT Temp Blank:	(res No Wet Ice:	Yeg No	S				
Temperature (°C):	4.8	Thermometer ID						
Received Intact:	Yes No	Correction Factor	012	15) =8021			TATS	TAT starts the day received by the
Sample Custody Seals:		Total Containers:	-	PA 8			5	lab, if received by 4:30pm
Sample Identification	ification Matrix	Date Time Sampled Sampled	Depth	Numb TPH (E BTEX (Chlorid			(0	Sample Comments
1055	S	5/13/20 1520	0.5'	XXX				
	/							
		/						
				/				
				7				
Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8	RCRA 13PPM Texas 11 A	Al Sb As Ba Be B Cd Ca RA Sb As Ba Be Cd Cr Co		Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Cu Pb Mn Mo Ni Se Ag Ti U	Ag SiO2	Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Hg
Notice: Signature of this c of service. Xenco will be	locument and relinquishment of llable only for the cost of samp	of samples constitutes a value of samples constitutes a value of the same and shall not assume an a charge of the same second se	d purchase order from y responsibility for any of \$5 for each sample s	client company to Xenco, its losses or expenses incurred ubmitted to Xenco, but not ar	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 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. Xenco will be liable only for the cost or 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. Xenco will be liable only for the cost or some of states and a charge of 55 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	yns standard terms and condit to circumstances beyond the circumstances beyond the circumstances breviously negotiated.	tions ontrol	
Relinquished by: (Signature)	: (Sjgnature)	Received by: (Signature)	ature)	Date/Time	Relinquished by: (Signature)	ture) Receive	Received by: (Signature)	Date/Time
1 mill	and O	1 L L L		5/14/20 15:24	2			
1 Proc 0	(/		•			
5					6			Revised Date 051418 Rev. 2018.1



Work Order No: lelel Levet

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 05.14.2020 03.26.00 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 661667	Temperature Measuring de	evice used : T-NM-007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	4.8	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Sample received in bulk container.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Warmer

Date: 05.14.2020

Jessica Kramer

Date: 05.15.2020



Project Id: 012920064 Dan Moir

Contact:

Project Location:

Certificate of Analysis Summary 662710

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 500 CTB

Date Received in Lab: Wed 05.27.2020 13:13 **Report Date:** 05.30.2020 23:46

Project Manager: Jessica Kramer

	Lab Id:	662710-001			
Analysis Requested	Field Id:	BH01			
Analysis Requested	Depth:	2- ft			
	Matrix:	SOIL			
	Sampled:	05.27.2020 10:00			
BTEX by EPA 8021B	Extracted:	05.27.2020 17:32			
	Analyzed:	05.27.2020 21:25			
	Units/RL:	mg/kg RI			
Benzene		<0.00200 0.0020	0		
Toluene		<0.00200 0.0020			
Ethylbenzene		<0.00200 0.0020			
m,p-Xylenes		<0.00401 0.0040			
o-Xylene		<0.00200 0.0020			
Total Xylenes		<0.00200 0.0020			
Total BTEX		<0.00200 0.0020	0		
Chloride by EPA 300	Extracted:	05.27.2020 16:30			
	Analyzed:	05.27.2020 21:02			
	Units/RL:	mg/kg RI			
Chloride		131 10.	0		
TPH by SW8015 Mod	Extracted:	05.27.2020 14:30			
	Analyzed:	05.27.2020 16:25			
	Units/RL:	mg/kg RI			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.	0		
Diesel Range Organics (DRO)		<50.0 50.	0		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.			
Total GRO-DRO		<50.0 50.			
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

fession kramer

Jessica Kramer Project Manager

Final 1.000



Analytical Report 662710

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 500 CTB

012920064

05.30.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-6) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



05.30.2020

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

Reference: XENCO Report No(s): 662710 Remuda 500 CTB 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) 662710. 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. 662710 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,

Jession Vermer

Jessica Kramer Project Manager

A Small Business and Minority Company

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



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Sample Cross Reference 662710

LT Environmental, Inc., Arvada, CO

Remuda 500 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	05.27.2020 10:00	2 ft	662710-001

.



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Remuda 500 CTB

 Project ID:
 012920064

 Work Order Number(s):
 662710

Report Date:05.30.2020Date Received:05.27.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



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Certificate of Analytical Results 662710

LT Environmental, Inc., Arvada, CO

Remuda 500 CTB

Sample Id: BH01		Matrix:	Soil		Date Received:05	.27.2020 13	:13
Lab Sample Id: 662710)-001	Date Co	llected: 05.27.2020	0 10:00	Sample Depth: 2 f	ft	
Analytical Method: C	hloride by EPA 300				Prep Method: E3	300P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Pre	p: 05.27.2020) 16:30	Basis: W	et Weight	
Seq Number: 312716	1						
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	131	10.0	mg/kg	05.27.2020 21:02		1

Analytical Method: TPH by SW801	5 Mod					Prep Method: S'	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 05	27.2020 14:30		Basis: W	et Weight	
Seq Number: 3127168								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	05.27.2020 16:25	5 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	05.27.2020 16:25	5 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	05.27.2020 16:25	5 U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	05.27.2020 16:25	5 U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	05.27.2020 16:25	5 U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Dat	te Flag	
1-Chlorooctane		111-85-3	83	%	70-135	05.27.2020 16:	25	
o-Terphenyl		84-15-1	72	%	70-135	05.27.2020 16:	25	

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Certificate of Analytical Results 662710

LT Environmental, Inc., Arvada, CO Remuda 500 CTB

Sample Id: BH01	Matrix:	Soil	Date Recei	ved:05.27.2020 13:13
Lab Sample Id: 662710-001	Date Collecte	ed: 05.27.2020 10:00	Sample De	pth: 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3127163	Date Prep:	05.27.2020 17:32	Prep Metho % Moistur Basis:	od: SW5035A e: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.27.2020 21:25	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.27.2020 21:25	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.27.2020 21:25	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	05.27.2020 21:25	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.27.2020 21:25	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.27.2020 21:25	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.27.2020 21:25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.27.2020 21:25		
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.27.2020 21:25		

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Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

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



LT Environmental, Inc. Remuda 500 CTB

Analytical Method: Seq Number: MB Sample Id: Parameter Chloride	Chloride by EPA 3127161 7704166-1-BLK ME Resul <10.	3 Spike t Amount		Matrix: nple Id: LCS %Rec 102	Solid 7704166- LCSD Result 256	1-BKS LCSD %Rec 102	Limits 90-110		rep Metho Date Pro D Sample RPD Limit 20	ep: 05.2	0P 27.2020 4166-1-BSD Analysis Date 05.27.2020 18:35	Flag
Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride	Chloride by EPA 3127161 662594-010 Paren Resul 16	t Spike t Amount		Matrix: nple Id: MS %Rec 95	Soil 662594-0 MSD Result 264	10 S MSD %Rec 95	Limits 90-110		rep Metho Date Pro D Sample RPD Limit 20	ep: 05.2	0P 27.2020 594-010 SD Analysis Date 05.27.2020 18:56	Flag
Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride	Chloride by EPA 3127161 662641-004 Parent Resul 338	t Spike t Amount		Matrix: nple Id: MS %Rec 95	Soil 662641-00 MSD Result 3570	04 S MSD %Rec 95	Limits 90-110		rep Metho Date Pro D Sample RPD Limit 20	ep: 05.2	0P 27.2020 641-004 SD Analysis Date 05.27.2020 20:41	Flag
Analytical Method: Seq Number: MB Sample Id: Parameter Gasoline Range Hydrocarb Diesel Range Organics Surrogate 1-Chlorooctane o-Terphenyl	3127168 7704221-1-BLK ME Resul ons (GRO) <50.	Spike Amount 0 1000 0 1000 0 1000 B MB B Flag	LCS San LCS Result 1070 1090 Lt %1	Matrix: nple Id: LCS %Rec 107 109 CS Rec 28 06	Solid 7704221- LCSD Result 1010 1040 LCS Flag	1-BKS LCSD %Rec 101 104 LCSI %Re 114 102	D LCS c Fla	LCS %RPD 6 5 D Li g 70	rep Metho Date Pro D Sample RPD Limit 35 35 imits -135 -135	ep: 05.2	8015P 27.2020 4221-1-BSD Analysis Date 05.27.2020 13:00 05.27.2020 13:00 05.27.2020 13:00 05.27.2020 13:00	Flag
Analytical Method: Seq Number: Parameter Motor Oil Range Hydrocar	3127168	Mod		Matrix: nple Id:	Solid 7704221-	1-BLK		P	rep Metho Date Pro		8015P 27.2020 Analysis Date 05.27.2020 12:39	Flag

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

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

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

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Final 1.000



QC Summary 662710

Prep Method: SW8015P

LT Environmental, Inc.

Remuda 500 CTB

Seq Number:	3127168]	Matrix:	Soil	27.2020						
Parent Sample Id:	662641-00	2		MS San	nple Id:	662641-00	02 S		MS	D Sample	e Id: 662	641-002 SD	
Parameter	•		MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag			
Gasoline Range Hydrocar	bons (GRO)	< 50.0	1000	1240	124	1050	105	70-135	17	35	mg/kg	05.27.2020 14:01	
Diesel Range Organics	(DRO)	<50.0	1000	1260	126	1060	106	70-135	17	35	mg/kg	05.27.2020 14:01	
Surrogate					IS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	14		115		70	-135	%	05.27.2020 14:01	
o-Terphenyl				9	9		84		70	-135	%	05.27.2020 14:01	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3127163]	Matrix:	Solid				Date Pr	ep: 05.2	27.2020	
MB Sample Id:	7704174-1-BLK		LCS San	nple Id:	7704174-	I-BKS		LCS	D Sample	e Id: 770	4174-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.109	109	0.104	104	70-130	5	35	mg/kg	05.27.2020 14:57	
Toluene	< 0.00200	0.100	0.104	104	0.101	101	70-130	3	35	mg/kg	05.27.2020 14:57	
Ethylbenzene	< 0.00200	0.100	0.0982	98	0.0952	95	71-129	3	35	mg/kg	05.27.2020 14:57	
m,p-Xylenes	< 0.00400	0.200	0.202	101	0.193	97	70-135	5	35	mg/kg	05.27.2020 14:57	
o-Xylene	< 0.00200	0.100	0.101	101	0.0980	98	71-133	3	35	mg/kg	05.27.2020 14:57	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	112		1	07		108		70	-130	%	05.27.2020 14:57	
4-Bromofluorobenzene	96		8	39		91		70	-130	%	05.27.2020 14:57	

Analytical Method:	BTEX by EPA 8021	lB						P	rep Metho	od: SW	5035A	
Seq Number:	3127163			Matrix:	Soil				Date Pr	ep: 05.2	27.2020	
Parent Sample Id:	662594-010		MS Sar	nple Id:	662594-01	10 S		MS	D Sample	e Id: 662	594-010 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.110	110	0.109	108	70-130	1	35	mg/kg	05.27.2020 15:38	
Toluene	< 0.00200	0.100	0.105	105	0.103	102	70-130	2	35	mg/kg	05.27.2020 15:38	
Ethylbenzene	< 0.00200	0.100	0.0984	98	0.0945	94	71-129	4	35	mg/kg	05.27.2020 15:38	
m,p-Xylenes	< 0.00401	0.200	0.202	101	0.194	97	70-135	4	35	mg/kg	05.27.2020 15:38	
o-Xylene	< 0.00200	0.100	0.103	103	0.0986	98	71-133	4	35	mg/kg	05.27.2020 15:38	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	07		109		70	-130	%	05.27.2020 15:38	

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

.

4-Bromofluorobenzene

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

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

.

05.27.2020 15:38

93

70-130

%

5	Should John S.	Relinquished by: (Sig	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, Its affiliates and subcontrac 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 loss of Xenco. A minimum charge of \$7.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be the set of Xenco is a state of the set of	Total 200.7 / 6010 Circle Method(s) and		-				/	/₹	BHOI	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Ezec	P.O. Number:	Project Number: 01	Project Name: Re	Phone: 432.	City, State ZIP: Midl	Address: 330	Company Name: LT E	Project Manager: Dan		XE
		(Signature)	ant and relinquishment of s only for the cost of samples \$75.00 will be applied to ea	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed								S	Matrix	Yes No NIA	Yes No NIA	(Yes No	3.2	Temp Blank:	Ezequiel Moreno		012920064	Remuda 500 CTI	432.236.3849	Midland, TX 79705	3300 North A Street	LT Environmental, Inc., I	Dan Moir		ENCO
	4	Received by: (Signature)	amples constitutes a valid p and shall not assume any r ich project and a charge of \$	8RCRA 13				/	4			5/27/20 1000	Date Time Sampled Sampled	Total Containers:	Correction Factor:	TNMOO	Thermometer ID	Yes No Wet Ice:	Due	Rush:	Routine	T B	Emai			Permian office		Midia Hobbs,NM (575-39	Houst
	58		urchase order from client esponsibility for any loss 5 for each sample submit	RCRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA			Å					1 .2	Depth	1	2:01	7	(Yes No	Due Date:		tine 🕅	Turn Around	Email: emoreno@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	nd, TX (432-704-5440))2-7550) Phoenix, AZ (4	Chain of Custody Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (2
	87900 13:13	Time	t company to Xenco, Its a ies or expenses incurred tited to Xenco, but not an:	I Sb As Ba Be B Cd Ca Cr Co Sb As Ba Be Cd Cr Co Cu Pb	/	/						XXX	TPH (E BTEX (Chlorid	EPA	0=80	021))						com	Carlsbad, NM 88220	3104 E Green Street	XTO Energy	Kyle Littrell	EL Paso,TX (915)585- 480-355-0900) Atlanta,	Chain of Custody Dallas,TX (214) 902-0300 San Antonio,7
6	4	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 \$76.00 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.	3 Cd Ca Cr Co Cu Fe Pb Mg d Cr Co Cu Pb Mn Mo Ni Se																		ANALYSIS REQUEST		20	tet			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)	UStody 00 San Antonio, TX (210) 509-3334
		Ire) Received by: (Signature)	tors. It assigns standard terms and conditions ses are due to circumstances beyond the control be enforced unless previously negotiated.	\g SiO2																		EST	Deliverables: EDD ADal	Reporting:Level IIevel IIIPS:	State of Project:	Program: UST/PST PRP Brownfields		3-620-2000) WWW.xenco.com	Work Order No:
D		re) Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Hg		-							Sample Comments	lab, if received by 4:30pm	TAT starts the day received to a							Work Order Notes	ADaPT Other:			nfields RC uperfund	on	n Page of	No: Lelez HO

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USGS 321717103561001 23S.29E.24.41321

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°17'17", Longitude 103°56'10" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,034 feet above NAVD88. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count					
Field groundwater-level measurements	1983-02-02	2003-01-29	4					
Revisions	Unavailable (site:0) (timeseries:							

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries