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	NRM2022649226
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

(NAD 83 in decimal degrees to 5 decimal places)

Longitude _____

Latitude 32.27659

Site Name Remuda 100	Site Type CTB
Date Release Discovered 7-30-2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	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) 40	Volume Recovered (bbls) 40
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release LO of the Remuda 100 found the inlet screen housing on the SWD pump leaking. A vacuum truck was dispatched and recovered 40 barrels of produced water from the lined containment. Liner inspection determined the liner was not operating as designed. A third-party contractor has been retained for remediation activities.

Rece

orm ([-14]	State of New Mexico	n		
	Oil Conservation Divis		Incident ID	NRM2022649226
e 2 Oli Conservation	On Conservation Divis	sion	District RP	
			Facility ID	
			Application IL)
Was this a major	If VES for what reason(s) does the	responsible party of	onsider this a major relea	15e7
release as defined by	A release equal to or greater than 2	5 harrels	disider this a major relea	150:
19.15.29.7(A) NMAC?	A release equal to or greater than 2.	o barreis.		
⊻ Yes □ No				
If YES, was immediate r	notice given to the OCD? By whom?	To whom? When a	and by what means (phon	ne, email, etc)?
Yes, by Adrian Baker to	Bratcher, Mike, EMNRD': 'Venegas,	Victoria, EMNRD':	'Hamlet, Robert, EMNR	D': Mann. Ryan via email on
Thursday, July 30, 2020	at 4:38 PM.	, , , , ,		, , , ,
	Initi	al Response		
The responsible	party must undertake the following actions im	mediately unless they cou	Ild create a safety hazard that y	would result in iniurv
_				
\mathbf{k} The source of the rel	ease has been stopped.			
🖈 The impacted area h	as been secured to protect human hea	Ith and the environm	ient.	
Released materials h	ave been contained via the use of ber	ma an dileas, ahsanha	nt nade or other contain	mont dovisos
		INS OF OIKES. ADSOFDE	III DAUS. OF OTHER COMPANY	
		ins of dikes, absorbe		ment devices.
► All free liquids and n	ecoverable materials have been remo	wed and managed ap	propriately.	ment devices.
✓ All free liquids and n If all the actions describe	recoverable materials have been remo ed above have <u>not</u> been undertaken, e	ved and managed ap xplain why:	ppropriately.	ment devices.
✓ All free liquids and n If all the actions describe	recoverable materials have been remo ed above have <u>not</u> been undertaken, e	ved and managed ap xplain why:	ppropriately.	
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NRM2022649226

Location:	Remuda 100 CTB		
Spill Date:	ate: 7/30/2020		
	Area 1		
Approximate Are	a =	224.58	cu.ft.
	VOLUME OF LEAK		
Total Produced V	Vater =	40.00	bbls

TOTAL VOLUME OF LEAK			
Total Produced Water =	40.00 bbls		
TOTAL VOLUME REC	OVERED		
Total Produced Water =	40.00 bbls		

8

	Page 4 of 4	10
Incident ID	NRM2022649226	
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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	Yes X 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 X 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
- X
 Data table of soil contaminant concentration data
- **X** Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- **X** Boring or excavation logs
- X Photographs including date and GIS information
- X Topographic/Aerial maps
- **X** 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.

Page 3

Received by OCD: 12/28	8/2020 1:56:15 PM			Page 5 of 4
	A Oil Conservation Division		Incident ID	NRM2022649226
Page 4	Oil Conservation Division	1	District RP	
			Facility ID	
			Application ID	
I hereby certify that the integulations all operators is public health or the enviring failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name:	ntormation given above is true and complete to the are required to report and/or file certain release norment. The acceptance of a C-141 report by the stigate and remediate contamination that pose at the of a C-141 report does not relieve the operator Kyle Littrell Gamma Ga	ne best of my knowledge a otifications and perform c e OCD does not relieve th hreat to groundwater, surfa of responsibility for comp 	and understand that purs orrective actions for rele e operator of liability sh ace water, human health liance with any other fe <u>Supervisor</u> 20 (432)-221-7331	uant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by: Crist	tina Eads	Date: <u>10/2</u>	28/2020	

Page 6

Oil Conservation Division

Incident ID	NRM2022649226
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.

<u>Closure Report Attachment Checklist</u> : Each of the following i	tems must be included in the closure report.
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C 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 complet and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	ete to the best of my knowledge and understand that pursuant to OCD rules n release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date: <u>10/23/2020</u>
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by: Cristina Eads	Date: <u>10/8/2020</u>
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Auture	Date: <u>12/23/2020</u>
Printed Name: Cristina Eads	Title: Environmental Specialist

LT Environmental, Inc.

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

A proud member of WSP

October 26, 2020

New Mexico Oil Conservation Division District 2 811 South First Street Artesia, New Mexico 88210

RE: Closure Request Remuda 100 Incident Number NRM2022649226 Eddy County, New Mexico

To Whom It May Concern:

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 100 (Site) located in Unit E, 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 for the presence or absence of impacts to soil following the release of produced water within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2022649226.

RELEASE BACKGROUND

On July 30, 2020, the inlet screen on the saltwater disposal pump malfunctioned, resulting in the release of 40 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; all 40 bbls of the released produced water were recovered from within the lined containment. A liner integrity inspection was immediately conducted by XTO personnel following the fluid recovery. A 48-hour advance notice of liner inspection was provided via email to New Mexico Oil Conservation Division (NMOCD) District II office and upon inspection, the liner was determined to be insufficient. XTO reported the release to the NMOCD via email on July 30, 2020 and submitted a Release Notification Form C-141 on August 13, 2020. The release was assigned Incident Number NRM2022649226.

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 less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater



District 2 Page 2

well with depth to groundwater data is United States Geologic Survey (USGS) well 321717103561001, located approximately 0.87 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 50 feet bgs, the total well depth is not determined. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well water records are included in Attachment 1. Ground surface elevation at the water well location is 3,033 feet, which is 39 feet lower in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is a dry wash located approximately 222 feet north 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 SOIL SAMPLING ACTIVITIES

On August 31, 2020, LTE personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. LTE personnel advanced one borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. One soil sample was collected from borehole BH01 at a depth of approximately 1.5 feet bgs before encountering auger refusal. Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log and are included as Attachment 2. The borehole was backfilled with the soil removed and XTO repaired the tear in the liner. The borehole delineation soil sample location is depicted on Figure 2. Photographic documentation was conducted during the Site visit. The photographic log is included in Attachment 3.

The soil sample was placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil sample was transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to



District 2 Page 3

Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPHdiesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample BH01, collected at a depth of approximately 1.5 feet bgs, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are presented on Figure 2 and are summarized in Table 1. The complete laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, LTE personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of soil impacts resulting from the July 30, 2020 produced water release within lined containment. One delineation soil sample was collected from borehole BH01 at a depth of approximately 1.5 feet bgs. Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of soil from the borehole indicated no elevated volatile aromatic hydrocarbons or chloride concentrations beneath the tear in the liner. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly below the tear in the liner, XTO respectfully requests NFA for Incident Number NRM2022649226.

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

Sincerely,

LT ENVIRONMENTAL, INC.

aeri Jennings

Kalei Jennings Project Environmental Scientist

Ashley L. ager

Ashley L Ager, P.G. Senior Geologist



District 2 Page 4

cc: Kyle Littrell, XTO Ryan Mann, New Mexico State Land Office Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Water Well Records
- Attachment 2 Lithologic/Soil Sampling Logs
- Attachment 2 Photographic Log
- Attachment 3 Laboratory Analytical Reports

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FIGURES





P:\XTO Energy\GIS\MXD\012920123_REMUDA 100\012920123_FIG01_SL_RECEPTOR_2020.mxd



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TABLES



TABLE 1 SOIL ANALYTICAL RESULTS

REMUDA 100 INCIDENT NUMBER NRM2022649226 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
BH01	1.5	08/31/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	50.6

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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Geographic Area: United States

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 321717103561001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321717103561001 23S.29E.24.41321

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°17'17", Longitude 103°56'10" NAD27 Land-surface elevation 3,034 feet above NAVD88 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-10-20 20:17:38 EDT 0.67 0.55 nadww01





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Search Results -- 1 sites found

site_no list =

• 321742103552601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321742103552601 23S.30E.19.123421

Available data for this site Groundwater: Field measurements V

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°17'42", Longitude 103°55'26" NAD27 Land-surface elevation 3,034 feet above NAVD88 The depth of the well is 100 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2020-10-20 20:18:17 EDT 0.66 0.57 nadww01





New Mexico Office of the State Engineer **Point of Diversion Summary**

		(quarters	are 1=N	W 2=1	NE $3=S^{*}$	W 4=SE)			
		(quarter	s are sm	allest t	o larges	t)	(NAD83 U	TM in meters)	
POD	Number	Q64 Q	16 Q4	Sec	Tws	Rng	Χ	Y	
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me:									
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ate:	08/28/2000	PCW Ro	ev Date	:			So	urce:	Shallow
e:		Pipe Dis	charge	Size	:	Es	Estimated Yield:	700 GPM	
e:	2.38	Depth W	Depth Well: 40 feet					pth Water:	18 feet
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*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

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Driller Na	me:	CAIN, SHAWN	N.NJR.L.NE	R						
Drill Start	Date:	05/11/2019	Drill Fi	nish Da	te:	0:	5/11/201	9 Plu	g Date:	
Log File D	ate:	08/28/2019	PCW R	cv Date	:			Sou	irce:	Shallow
Ритр Тур	e:		Pipe Discharge Size:					Est	imated Yield	:
Casing Siz	e:	2.06	Depth V	Depth Well: 58 feet				Dej	oth Water:	54 feet
Ι.	Wate	r Bearing Stratif	fications:	То	рE	Bottom	Descr	iption		
				4	5	54	Shale/	Mudstone/S	iltstone	
(Casing Per	forations:	То	рE	Bottom				
				4	8	58				

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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New Mexico Office of the State Engineer Point of Diversion Summary

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Driller Na	me:	CAIN, SHAWN	N.NJR.L.NI	ER						
Drill Start	Date:	05/14/2019	Drill Fi	inish Da	te:	0	5/14/201	9 Plu	g Date:	
Log File D	ate:	08/28/2019	PCW F	Rev Date	e:			Sou	irce:	Shallow
Ритр Тур	e:		Pipe Discharge Size:					Est	imated Yield	:
Casing Siz	e:	2.07	Depth '	Depth Well: 64 feet				Dej	pth Water:	54 feet
ĩ	Wate	r Bearing Stratif	fications:	То	op E	Bottom	Descr	iption		
				4	52	60	Limes	tone/Dolom	ite/Chalk	
(Casing Per	forations:	То	op E	Bottom	l			
				4	54	64				

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POINT OF DIVERSION SUMMARY

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ATTACHMENT 2: LITHOLOGIC / SOIL SAMPLING LOG



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1	ÍΓ			508 Wes	t Stevens	Street			BH01		8/31/2020	
C			(Carlsbad, N	lew Mexic	0 88220			Site Name: Remuda	100 CTB		
A	proud m	ember	Cor	nnlianco : E	naineerina	. Romodi	ation		RP or Incident Numbe	er: NRM20226	549226	
of	rWSP		001		iginicetiitiy	NGINEUK			LTE Job Number:	12920123		
		LITH	OLOG	IC / SOI	L SAMPI	LING LO)G		Logged By: Fatima Si	mith	Method:	Hand Auger
Lat/Lor	ng:				Field Scree	ening:			Hole Diameter:		Total Depth:	
Comme	ents:				Chloride, F	'nD					1.5	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/F	Remarks	
					 -	0						
	296	0.0			1'	1						
	296	0.0		BH01	1.5'	ł						
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PHOTOGRAPHIC LOG



Photograph 1: View east of point where liner was determined to be insufficient.



Photograph 2: View east of location of BH01.

Remuda 100 NRM2022649226





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ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



🔅 eurofins Environment Testing Xenco

Project Id: 012920123 Dan Moir

Contact:

Project Location:

Г

Certificate of Analysis Summary 671408

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 100 CTB

Date Received in Lab: Mon 08.31.2020 12:27 **Report Date:** 09.01.2020 11:31 Project Manager: Jessica Kramer

	Lab Id:	671408-001			
Analysis Requested	Field Id:	BH01			
Thatysis Requested	Depth:	1.5- ft			
	Matrix:	SOIL			
	Sampled:	08.31.2020 10:44			
BTEX by EPA 8021B	Extracted:	08.31.2020 17:02			
	Analyzed:	08.31.2020 21:11			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200			
m,p-Xylenes		<0.00401 0.00401			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Chloride by EPA 300	Extracted:	08.31.2020 17:05			
	Analyzed:	08.31.2020 19:02			
	Units/RL:	mg/kg RL			
Chloride		50.6 49.5			
TPH by SW8015 Mod	Extracted:	08.31.2020 15:40			
	Analyzed:	08.31.2020 15:56			
	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			

BRL - Below Reporting Limit

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

Jession Vramer

eurofins Environment Testing Xenco

Analytical Report 671408

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 100 CTB

012920123

09.01.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

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

eurofins Environment Testing Xenco

09.01.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 671408 Remuda 100 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 Eurofins Xenco, LLC Report Number(s) 671408. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 671408 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Environment Testing Xenco

.

Sample Cross Reference 671408

LT Environmental, Inc., Arvada, CO

Remuda 100 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	08.31.2020 10:44	1.5 ft	671408-001

.

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Remuda 100 CTB

 Project ID:
 012920123

 Work Order Number(s):
 671408

 Report Date:
 09.01.2020

 Date Received:
 08.31.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

.

Certificate of Analytical Results 671408

LT Environmental, Inc., Arvada, CO

Remuda 100 CTB

Sample Id: Lab Sample Id	BH01 : 671408-001		Matrix: Date Colle	Soil ected: 08.31.2020 10:44		Date Received Sample Depth:	:08.31.2020 12 : 1.5 ft	2:27
Analytical Me Tech: Analyst: Seq Number:	thod: Chloride by EPA MAB MAB 3136036	300	Date Prep:	08.31.2020 17:05		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Flag	Dil
Chloride		16887-00-6	50.6	49.5	mg/kg	08.31.2020 19	0:02	5
Analytical Me	thod: TPH by SW8015	Mod				Prep Method:	SW8015P	
Tech:	DTH					% Moisture:	51100101	
Analyst: Seq Number:	DTH 3136042		Date Prep:	08.31.2020 15:40		Basis:	Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Flag	Dil

Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	3 49.8		mg/kg	08.31.2020 15:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	3 49.8		mg/kg	08.31.2020 15:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	3 49.8		mg/kg	08.31.2020 15:56	U	1
Total GRO-DRO	PHC628	<49.8	3 49.8		mg/kg	08.31.2020 15:56	U	1
Total TPH	PHC635	<49.8	3 49.8		mg/kg	08.31.2020 15:56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	08.31.2020 15:56		
o-Terphenyl		84-15-1	114	%	70-135	08.31.2020 15:56		

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Certificate of Analytical Results 671408

LT Environmental, Inc., Arvada, CO Remuda 100 CTB

Sample Id:BH01Lab Sample Id:671408-001	Matrix: Soil Date Collected: 08.31.2020 10:44	Date Received:08.31.2020 12:27 Sample Depth: 1.5 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB Analyst: MAB	Date Prep: 08.31.2020 17:02	Prep Method: SW5035A % Moisture: Basis: Wet Weight
Seq Number: 3136040		

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.31.2020 21:11	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.31.2020 21:11	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.31.2020 21:11	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.31.2020 21:11	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.31.2020 21:11	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.31.2020 21:11	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.31.2020 21:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	08.31.2020 21:11		
1,4-Difluorobenzene		540-36-3	101	%	70-130	08.31.2020 21:11		

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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 Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	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/Labor	ratory Control Sample Duplicate
MD/S	D Method Duplicate/Sampl	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	ELAC certification not offered	for this compound.			

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

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QC Summary 671408

LT Environmental, Inc.

Remuda 100 CTB

Analytical Method: Seq Number:	Chloride by 3136036	y EPA 30	0		Matrix:	Solid			Pr	ep Metho Date Pre	od: E30 ep: 08.3	0P 31.2020	
MB Sample Id:	7710556-1-H	BLK		LCS San	nple Id:	7710556-1	I-BKS		LCSI	D Sample	Id: 771	0556-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	266	106	269	108	90-110	1	20	mg/kg	08.31.2020 18:23	
Analytical Method:	Chloride by	v EPA 30	0		NT / '	G .1			Pr	ep Metho	od: E30	0P	
Parent Sample Id:	671432-001			MS Sar	nnle Id	671432-00)1 S		MS	Date Pre	Id 671	432-001 SD	
Parameter	071432-001	Parent	Spike	MS MS Result	MS %Rec	MSD Bogult	MSD	Limits	%RPD	RPD Limit	Units	Analysis	Flag
Chloride		3.70	200	204	100	204	100	90-110	0	20	mg/kg	08.31.2020 18:39	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by 3136036 671436-006	7 EPA 30	0	MS Sar	Matrix: nple Id:	Soil 671436-00)6 S		Pr MSI	ep Metho Date Pre D Sample	od: E30 ep: 08.3 e Id: 671	0P 31.2020 436-006 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		2420	200	2610	95	2600	90	90-110	0	20	mg/kg	08.31.2020 19:58	
Analytical Method: Seq Number:	TPH by SW 3136042	/8015 M	od	I CS Som	Matrix:	Solid	DVS		Pr	ep Metho Date Pre	od: SW ep: 08.3	8015P 31.2020	
Parameter	//10558-1-1	MB	Spike	LCS San	LCS	LCSD		Limits	%RPD	RPD	Units	Analysis	Flag
Gasoline Range Hydrocarbo	ns (GRO)	<50.0	1000	902	90	889	% Kec 89	70-135	1	35 25	mg/kg	08.31.2020 13:35	
Surrogate	DRO)	<50.0 MB %Rec	MB Flag	1020 L	CS Rec	LCS Flag	LCSI %Ree) LCSI	D Li	35 mits	mg/kg Units	Analysis Date	
1-Chlorooctane o-Terphenyl		72 74		1 1	22 17		118 116		70 70	-135 -135	% %	08.31.2020 13:35 08.31.2020 13:35	
Analytical Method: Seq Number:	TPH by SW 3136042	/8015 M	od	MB San	Matrix:	Solid	LBIK		Pr	ep Metho Date Pre	od: SW ep: 08.3	8015P 31.2020	
Parameter				MB	apie iu.	110550-1					Units	Analysis	Flag
Motor Oil Range Hydrocarb	ons (MRO)			<50.0							mg/kg	08.31.2020 13:15	

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

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LT Environmental, Inc.

Remuda 100 CTB

TPH by SW	8015 M	od						Pi	rep Meth	od: SW	8015P	
3136042]	Matrix:	Soil				Date Pr	ep: 08.3	1.2020	
671408-001			MS San	nple Id:	671408-00	01 S		MS	D Sample	e Id: 671	408-001 SD	
	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
ns (GRO)	< 50.0	999	937	94	886	89	70-135	6	35	mg/kg	08.31.2020 16:16	
ORO)	<50.0	999	1050	105	1010	101	70-135	4	35	mg/kg	08.31.2020 16:16	
			N %]	IS Rec	MS Flag	MSD %Ree	o MSE c Flag) Li ç	imits	Units	Analysis Date	
			1	26		118		70	-135	%	08.31.2020 16:16	
			1	26		115		70	-135	%	08.31.2020 16:16	
	TPH by SW 3136042 671408-001 hs (GRO) DRO)	TPH by SW8015 M 3136042 671408-001 Parent Result 1s (GRO) <50.0 DRO) <50.0	TPH by SW8015 Mod 3136042 671408-001 Parent Spike Result Amount 1s (GRO) <50.0	TPH by SW8015 Mod 3136042 1 671408-001 MS Sam Parent Spike MS Result Amount Result 1s (GRO) <50.0	TPH by SW8015 Mod 3136042 Matrix: 671408-001 MS Sample Id: Parent Spike MS MS Result Amount Result %Rec 1s (GRO) <50.0	TPH by SW8015 Mod 3136042 Matrix: Soil 671408-001 MS Sample Id: 671408-00 Parent Spike MS MS Result Amount Result %Rec Result 1s (GRO) <50.0	TPH by SW8015 Mod 3136042 Matrix: Soil 671408-001 MS Sample Id: 671408-001 S Parent Spike MS MS MSD MSD Result Amount Result %Rec Result %Rec 1s (GRO) <50.0	TPH by SW8015 Mod 3136042 Matrix: Soil 671408-001 MS Sample Id: 671408-001 S Parent Spike MS MSD MSD Limits Result Amount Result %Rec Result %Rec 1s (GRO) <50.0	TPH by SW8015 Mod Pri 3136042 Matrix: Soil 671408-001 MS Sample Id: 671408-001 S MS Parent Spike MS MS MSD MSD Limits %RPD Result Amount Result %Rec Result %Rec 1010 101 70-135 6 DRO) <50.0	Prep Meth 3136042 Matrix: Soil Date Pr 671408-001 MS Sample Id: 671408-001 S MSD Sample Parent Spike MS MS MSD MSD Limits %RPD RPD Ins (GRO) <50.0	Prep Method: SW3 3136042 Matrix: Soil Date Prep: 08.3 671408-001 MS Sample Id: $671408-001$ S MSD Sample Id: $671408-001$ S MSD Sample Id: $671408-001$ S Parent Spike MS MS MSD MSD Limits %RPD RPD Units Result Amount Result %Rec Result %Rec 1010 101 70-135 6 35 mg/kg $0RO$ <50.0	Prep Method: SW8015 Mod 3136042 Matrix: Soil Date Prep: 08.31.2020 671408-001 MS Sample Id: 671408-001 S MSD Sample Id: 671408-001 SD Parent Result Amount MS MS MSD MSD Limits %RPD RPD Units Analysis ns (GR0) <50.0

Analytical Method:	BTEX by EPA 8021	В						Pı	rep Meth	od: SW	5035A	
Seq Number:	3136040]	Matrix:	Solid				Date Pr	ep: 08.3	31.2020	
MB Sample Id:	7710552-1-BLK		LCS San	nple Id:	7710552-1	I-BKS		LCS	D Sample	e Id: 771	0552-1-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	0.0976	98	0.100	100	70-130	2	35	mg/kg	08.31.2020 18:13	
Toluene	< 0.00200	0.100	0.0931	93	0.0981	98	70-130	5	35	mg/kg	08.31.2020 18:13	
Ethylbenzene	< 0.00200	0.100	0.0979	98	0.0978	98	71-129	0	35	mg/kg	08.31.2020 18:13	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.200	100	70-135	2	35	mg/kg	08.31.2020 18:13	
o-Xylene	< 0.00200	0.100	0.0972	97	0.103	103	71-133	6	35	mg/kg	08.31.2020 18:13	
Surrogate	MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag) Li	imits	Units	Analysis Date	
1,4-Difluorobenzene	101		9	96		94		70	-130	%	08.31.2020 18:13	
4-Bromofluorobenzene	110		9	91		101		70	-130	%	08.31.2020 18:13	

Analytical Method:	BTEX by EPA 8021	B						Pi	rep Meth	od: SW	5035A	
Seq Number:	3136040			Matrix:	Soil				Date Pr	ep: 08.3	31.2020	
Parent Sample Id:	671432-001		MS Sar	nple Id:	671432-00	01 S		MS	D Sampl	e Id: 671	432-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.106	106	0.115	115	70-130	8	35	mg/kg	08.31.2020 18:54	
Toluene	< 0.00200	0.100	0.0999	100	0.107	107	70-130	7	35	mg/kg	08.31.2020 18:54	
Ethylbenzene	< 0.00200	0.100	0.100	100	0.111	111	71-129	10	35	mg/kg	08.31.2020 18:54	
m,p-Xylenes	< 0.00401	0.200	0.207	104	0.224	112	70-135	8	35	mg/kg	08.31.2020 18:54	
o-Xylene	< 0.00200	0.100	0.102	102	0.114	114	71-133	11	35	mg/kg	08.31.2020 18:54	
Surrogate			N %	1S Rec	MS Flag	MSD %Re) MSI c Flag	D Li g	imits	Units	Analysis Date	
1 4-Difluorobenzene			(94		94		70	-130	%	08.31.2020 18:54	

Surrogate	%Rec	Flag	%Rec	Flag		Date
1,4-Difluorobenzene	94		94	70-130	%	08.31.2020 18:54
4-Bromofluorobenzene	98		98	70-130	%	08.31.2020 18:54

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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Ime: LT Environmental, Inc., Permion Office company Name: XTO Environ Program: UST/PST PRP Brownfields RRC Superfu ess: 3300 Nordh A Streat address: 3104 E Greene St State of Project: NM State of Project: Reporting:Level II Prostrust TRRP Level IV me: (432) 236-3849 Email: City, state zip: Carlobad, NM RRC State of Project: Reporting:Level II Prostrust TRRP Level IV me: (432) 236-3849 Email: Fam. thaltonv.com Deliverables: EDD Adapt other:	NALYSIS REQUEST Preservative C		Irn Around	IOD CTB T	Project Name: Ramudo
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CONDITIONS

Action 10890

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

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

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

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

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

CONDITIONS OF APPROVAL

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707	OGRID: 5380	Action Number: 10890	Action Type: C-141
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OCD Reviewer	Condition		
ceads	None		