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District 1 1625 N. French District II	Dr., Hobbs, I	NM 88240		St Energy Mi	tate of inerals	New Mex and Natura	ico l Resour	F	REC	EIVE	D	F Revised Octo	orm C-141 ober 10, 2003
301 W. Grand <u>District III</u> 1000 Rio Brazo <u>District IV</u> 220 S. St. Fran	Avenue, Arte s Road, Azteo cis Dr., Santa	esia, NM 88210 c, NM 87410 a Fe, NM 8750:	5	Oil 0 1220	Conser) South	vation Di St. Franc	vision is Dr.	N		22201		2 Copies to rict Office in with Rule	appropriate accordance 116 on back side of form
20-015	- 21.92	/	Dal	Saco Notifi	anta Fe	e, NM 873	05	vo A	otion		a substantia and a		
min in	55646	177	Ren	ease Noting	cation	OPERA'	FOR	ve A	cuon	🛛 Initi	al Reno	et 🗆 I	Final Rend
Name of Co	ompany BC	OPCO, L.P.		260737		Contact Tor	ny Savoie				ui reepe		marreep
Address 52	2 W. Mern	nod, Suite 70	04 Carlsb	ad, N.M. 88220) '	Telephone	No. 432-5	56-87	30				
facility Nat	me: Golder	n 8 Federal I	Battery #			Facility Typ	be E&P						
Surface Ow	mer Federa	ıl		Mineral (Owner F	Federal				Lease 1	No.		
				LOCA	ATION	OF RE	LEASE						
Unit Letter	Section 8	Township 21S	Range 29E	Feet from the	North/	South Line	Feet from	n the	East/V	Vest Line	Count Eddy	у	
			I	atitude_N 32.4	491438_	Longitu	ide W 104	4.0081	47				
				NAT	FURE	OF REL	EASE						
Type of Rele	ase: Crude	oil				Volume of Crude oil	Release: 9	0 Bbls	of	Volume 1	Recover	ed: 80 bbls o	f crude oil
Source of Re	lease: Drain	i line connect	ion on the	back of a 500 bb	I. tank	Date and I Unknown	lour of Oce	currenc	e	Date and 6/14/10	Hour of 8:56 a.m	Discovery	
Was Immedi	ate Notice C	Siven?	Yes [No 🗌 Not R	equired	Randy NM	Whom? OCD on c	all ope	rator				
By Whom?	Fony Savoie					Date and I	lour 6/14/1	0 9:24	a.m.				
Was a Water	course Read	ched?	Yes 🗵	No		If YES, V	olume Impa	acting	he Wate	ercourse.			
Describe Cat oil in the tan Describe Arc around the ta	use of Problek was removed a Affected anks. The free	em and Reme ved, the tank and Cleanup A ce standing flu	dial Actio was cleane Action Tal	n Taken.* The dr d, inspected and ken.*The released removed. The hea	rain line of repaired	connection of by replacing fected an are trated soil is	the back of the connect a of approx	of the ta tions a imately	ank faile nd coati y 2,000 being rer	ed due to in ng the tanl sq. ft insid noved and	nternal c k interna e the ear placed o	orrosion, the lly. then contain on plastic. Th	remaining ment ne area
nside the co The Site rem hereby cert regulations a public health hould their or the enviro rederal, state	ntainment a ediation for ify that the i ll operators or the envir operations h nment. In a , or local law	rea will be sain the crude oil information g are required to ronment. The bave failed to iddition, NMC ws and/or regu	mpled to d spill will (iven above o report and acceptance adequately OCD accept ulations.	etermine vertical follow the NMOC is true and comp nd/or file certain ce of a C-141 rep v investigate and ptance of a C-141	extent; a CD guide plete to the release no ort by the remediate report de	a remediation lines for leak ne best of my otifications a e NMOCD m e contaminat oes not reliev	plan along s and spills knowledg nd perform arked as "I on that pos- e the opera	g with a s. c and u correct Final R se a thr ator of	a new co inderstan etive acti eport" d reat to gr responsi	ntainment nd that pur ions for rel oes not rel ound wate ibility for c	plan will suant to leases while ieve the cr, surfac	Il be submitte NMOCD rul hich may enc operator of l e water, hum hee with any	ed. les and langer liability nan health other
							OIL	CON	SERV	ATION	DIVI	SION	
Signature:	Tomu	Bau	2es			Approved by	District Su	ipervis d By	or:	1 Ben	num		
Title: Waste	Mgmt & Re	emediation Sp	ecialist			Approval Da	2/2	In		Expiration	Date:		
E-mail Addro	ess: TASavo	bic@BassPet.	com			Conditions o	f Approval	:		05.8	Attac	ched 🗌	
Date: 6/22/10 Attach Addi) tional Shee	ets If Necess	sary	Phone:432-556-	8730	Guideline PROPOS	AL NOT L	ATER	MEDIA	TION	RP	521	





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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	2RP-521
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 32.491438_

Longitude -104.008147_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden 8 Federal Battery #1	Site Type Exploration and Production
Date Release Discovered 06/14/2010	API# (if applicable) 30-015-26931

Unit Letter	Section	Township	Range	County
K	8	21S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: BLM______

Nature and Volume of Release

Material	Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)				
Crude Oil	Volume Released (bbls) 90	Volume Recovered (bbls) 80			
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			
Cause of Palaasa					

Cause of Release

The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product. The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report date d2/6/2011. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous spill.

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Form C-141 Page 2		State of New Mexico Oil Conservation Division	Incident ID District RP	2RP-0521
			Facility ID	
			Application ID	
	Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible par Volume of release is greater than 25 bbls.	ty consider this a major release?	
	If YES, was immediate n Tony Savoie (XTO) cont	otice given to the OCD? By whom? To whom? Wh acted the on-call NMOCD operator (Randy) on 06/14	en and by what means (phone, e /2010 at 9:24 am.	email, etc)?

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

 \square The source of the release has been stopped.

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

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

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

If all the actions described above have \underline{not} been undertaken, explain why: N/A

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

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

Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:

Received/by (OCD:11/3/2020 31:12:49 PM

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-0521
Facility ID	
Application ID	

Page 5 of 86

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ 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.

Received by OCD:173720	1208 31: 12: 49 PM			Page 6 of 8
Form C-141 State of New Mexic			Incident ID	
Page 4	Oil Conservation Divisior	1	District RP	2RP-0521
			Facility ID	
			Application ID	
regulations all operators public health or the envi failed to adequately inve addition, OCD acceptan and/or regulations. Printed Name: Signature: email:Kyle_Lit	are required to report and/or file certain release no ronment. The acceptance of a C-141 report by the stigate and remediate contamination that pose a th ce of a C-141 report does not relieve the operator of _Kyle Littrell	otifications and perform co e OCD does not relieve the meat to groundwater, surfa of responsibility for compl Title:SH&E Su Date:12/31/2019 Telephone:432-	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe upervisor -221-7331	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
Received by:		_ Date:		

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Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-0521
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must be included in the plan.						
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 						
	anno 15 more anni 20 ango 002 approvar 15 required)					
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility					
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human health	h, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:Kyle Littrell	Title:SH&E Supervisor					
Signature:	Date:12/31/2019					
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331					
OCD Only						
Received by:	Date:					
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved					
Signature:	Date:					

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District I 1625 N. French District II	Dr., Hobbs, 1	NM 88240		St Energy Mi	ate of l nerals a	New Mex and Natura	ico l Resources			Re	Form C-141 vised October 10, 2003
1301 W. Grand District III 1000 Rio Brazos District IV 1220 S. St. Fran	Avenue, Arte s Road, Azteo cis Dr., Santa	esia, NM 88210 c, NM 87410 a Fe, NM 87505	5	Oil 0 1220 Sa	Conserver South	vation Div St. France, NM 875	vision is Dr. 505			Submit 2 C District	Copies to appropriate Office in accordance ith Rule 116 on back side of form
30-015-2	26931		Rele	ease Notific	cation	and Co	orrective A	ction			<u>,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
KMW	Holda	29393				OPERA'	FOR		🛛 Initia	al Report	Final Report
Name of Co	mpany BC	OPCO, L.P.		260737	(Contact Tor	ny Savoie				
Address 522	2 W. Mern	nod, Suite 70	04 Carlsb	ad, N.M. 88220		Telephone 1	No. 432-556-87	30			
Facility Nar	ne: Golder	n 8 Federal I	Battery #	1		Facility Typ	be E&P]
Surface Ow	ner Federa	al		Mineral (Owner F	ederal			Lease N	No.]
				LOCA	ATION	OF RE	LEASE				
Unit Letter K	Section 8	Township 21S	Range 29E	Feet from the	North/	South Line	Feet from the	East/V	West Line	County Eddy	
	L		ı	atitude_N 32.4	491352_	Longitu	de W 104.0082	223			
				NAT	TURE	OF REL	EASE				
Type of Relea	ase: Crude	Oil .				Volume of	Release: 310 Bb	ls	Volume F	Recovered: 2	290
Source of Re	lease: 500 t	bl tank overf	low			Date and H	Hour of Occurren	ce	Date and	Hour of Dis	covery
						2/16/11 ho	ur not known		2/16/11 1	10:00 a.m.	
Was Immedia	ate Notice (Given?	Yes [No 🗆 Not R	equired	If YES, To	Whom? NMOC	D emerg	gency repor	ting. Left m	essage with details.
By Whom?	Fony Savoi	e				Date and Hour 2/16/11 1:30 p.m.					
Was a Water	course Read	ched?	Yes 🗵	No		If YES, V	olume Impacting	the Wat	ercourse.	ECEN	VED
Describe Cau was repaired Describe Are pasture land of reported to the of crude oil v The Site remu- l hereby certi- regulations al public health should their of or the envirou- federal, state.	ase of Probl and put bac a Affected outside the le NMOCD vas recover ediation for fy that the II operators or the envi operations f nment. In a or local la	em and Reme ck in service. and Cleanup / containment r o on 10/6/10. T ed from inside the crude oil information g are required to ronment. The have failed to addition, NMC ws and/or regi	dial Action Action Tal measuring The oil satt e the conte spill will iven above to report at acceptana adequately DCD accep ulations.	n Taken.* A 500 ken.*An area insi approximately 4(urated soil outside inment. The area follow the NMOO e is true and comp nd/or file certain ce of a C-141 rep y investigate and o ptance of a C-141	bbl. Oil j de the ea 00 sq. ft. e the con inside th 2D guide olete to th release no ort by the remediate report de	product tank rthen tank co The area out tainment was te containme lines for leak te best of my otifications a te NMOCD n te contaminat oes not reliev	overflowed due t intainment measu side the containm s removed by Bas nt was covered w is and spills. knowledge and u nd perform corre narked as "Final F ion that pose a the verthe operator of OIL CON District Supervis Signed By.	o a heat ring app ent had in Env. ith soil to understa ctive act Report" of reat to g respons SERV	er-treater m proximately been affect using a hyd to absorb sr ind that purs- tions for rel does not rel round wate ibility for c	MAR 0 2 MOCD A alfunction. 14,100 sq. 14,100 sq.	The heater-treater The heater-treater ft. and an area of rious flow line spill proximately 290 bbls free product. OCD rules and may endanger rator of liability ater, human health with any other DN
Printed Name	e: Tony Sav	voie	ecialist			Approval Da	Signed By		Expiration	Date:	
E-mail Addre Date: 3/3/11	ess: TASav	oie@BassPet.	com	hone:432-556-87	30	Conditions o Reme	f Approval: diation per OC	D Rule	es &	Attached	
Attach Addi	tional She	ets If Necess	sary		<u> </u>	Guideline: PROPOSA	S. SUBMIT REM L NOT LATER 4/7/11	MEDIAT	TION	L	2 R.P. 633

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	2RP-0633
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 32.491352_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden 8 Federal Battery #1	Site Type Exploration and Production
Date Release Discovered 02/16/2011	API# (<i>if applicable</i>) 30-015-26931

Unit Letter	Section	Township	Range	County
K	8	21S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: BLM_____

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) 310	Volume Recovered (bbls) 290				
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)				
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No				
Condensate	Volume Released (bbls)	Volume Recovered (bbls)				
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)				
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)				
Cause of Delease						

Cause of Release

A 500 bbl oil tank overflowed due to a heater-treater malfunction. The heater treater was repaired and put back into service. An area inside the earthen tank containment measuring approximately 14,100 sq. ft. and an area of pasture land outside the containment measuring approximately 400 sq. ft. was affected. The area outside the containment had been affected by a previous flow line spill reported to the NMOCD on 10/06/2010. The oil saturated soil outside the containment was removed by Basin Env. Using a hydro-vac. Approximately 290 bbls of crude oil was recovered from inside the containment.

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orm C-141	State of New Mexico	Le si de ret ID	
age 2	Oil Conservation Division	District PP	2DD ()622
		Encility ID	2KF-0055
		Application ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No	If YES, for what reason(s) does the responsible party Release volume was greater than 25 bbls.	y consider this a major release	?
If YES, was immediate ne Yes, Tony Savoie contact	otice given to the OCD? By whom? To whom? Whe ted the NMOCD on 2/16/2011 via telephone (NMOCI	en and by what means (phone, D emergency reporting).	email, etc)?
The responsible	Initial Response party must undertake the following actions immediately unless they	could create a safety hazard that wor	ıld result in injury
The source of the rele	ease has been stopped.		
The impacted area ha	s been secured to protect human health and the enviro	nment.	
Released materials ha	ave been contained via the use of berms or dikes, abso	rbent pads, or other containme	ent devices.
\square All free liquids and r	acoverable materials have been removed and managed	appropriately	
If all the actions described N/A	d above have <u>not</u> been undertaken, explain why:		
Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmer	AC the responsible party may commence remediation a narrative of actions to date. If remedial efforts hav nt area (see 19.15.29.11(A)(5)(a) NMAC), please attac	n immediately after discovery ye been successfully complete th all information needed for c	of a release. If remediatio d or if the release occurre losure evaluation.

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

Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:

Received/by (OCD:11/3/2020 31:12:49 PM

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-0633
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Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ 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.

eceived/by@CD:11/3/20	20 3:12:49 PM			Page 12 of 80
Form C-141 State of New Mexico			Incident ID	
Page 4	Oil Conservation Divisio	on	District RP	2RP-0633
			Facility ID	
			Application ID	
regulations all operators public health or the envir failed to adequately inve addition, OCD acceptance and/or regulations. Printed Name: Signature: email:Kyle_Lit	are required to report and/or file certain release is conment. The acceptance of a C-141 report by the stigate and remediate contamination that pose a see of a C-141 report does not relieve the operator. [Kyle Littrell	notifications and perform c the OCD does not relieve the threat to groundwater, surfa r of responsibility for comp Title:SH&E S Date:12/31/2019 Telephone:432	orrective actions for refe e operator of liability sh ace water, human health liance with any other fe upervisor 	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
Received by:		Date:		

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Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-0633
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist:</u> Each of the following items must be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation			
\bigtriangleup Contamination must be in areas immediately under or around pr deconstruction.	roduction equipment where remediation could cause a major facility			
\boxtimes Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Kyle Littrell	Title:SH&E Supervisor			
Signature:	Date:12/31/2019			
email:Kyle_Littrell@xtoenergy.com Telephone:432-221-7331				
OCD Only				
Received by:	Date:			
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved			
Signature:	Date:			

625 N. French Dr., Hobbs, NM 8824 RECE	Energy Minerals	New Mex and Natura	ICO I Resources		Form C-141 Revised August 8, 2011
11 S. First St., Artesia, NM 88210 NOV 2	6 2013 Oil Conce	vation Div	vision	Submit 1 Copy	to appropriate District Office in
000 Rio Brazos Road, Aztec, NM 87410	ADTE 1220 Sout	h St. Franc	is Dr.	a	cordance with 19.15.29 NMAC.
220 S. St. Francis Dr., Santa Fe, NM 8750540CD	Santa F	e, NM 875	05		
T N Rele	ase Notification	n and Co	orrective A	ction	
1. M/1333053660		OPERA	FOR	🛛 Initi	al Report 🔲 Final Report
Name of Company: BOPCO, L.P. 260	737	Contact: To	ny Savoie		
Address: 522 W. Mermod, Suite 704 Carlst	ad, N.M. 88220	Telephone N	No. 575-887-73	29 and Production	
P&A 2011	, the well #1 was	Facility Typ	e. Exploration a	and Froduction	
Surface Owner: Federal	Mineral Owner:	Federal		API No	0. 30-015-26931
	LOCATIO	N OF REI	LEASE		
Unit Letter Section Township Range K 8 21S 29E	Feet from the North 1650 South	/South Line	Feet from the 2180	East/West Line West	County Eddy
	Latitude N 32.49114	Longitude	e W 104.007775	5	
	NATURE	OF REL	EASE		
Type of Release: Crude oil and produced water		Volume of	Release: 6 Bbls o	of Volume	Recovered: 3 Bbls oil and 2 Bbls
Source of Release: Heater-treater fire tube		Date and H	four of Occurrence	ce: Date and Hour of Discovery: Date	
		Date 11/25/13 Time unknown 11/25/13 Time approximately 9:00		Time approximately 9:00 a.m.	
Was Immediate Notice Given?	No Not Required	IT YES, 10	wnom?		
By Whom?	-	Date and F	lour		
Was a Watercourse Reached?	No	If YES, Vo	olume Impacting t	the Watercourse.	
If a Watercourse une Imposted Describe Fully	110		1.0000.00		
If a watercourse was impacted, Describe Pully.					
Describe Cause of Problem and Remedial Actio The fire tube on the heater-treater developed a le free product.	n Taken.* ak, the production was s	witched out o	f the vessel, a vac	uum truck was dis	patched to the site to recover the
Describe Area Affected and Cleanup Action Tal	en.*				
The spill impacted approximately 900 sq. ft. of t practicable in the area around the vessels and lin be re-addressed, cleaned up as required and a ne	he tank battery earthen c es during a remediation a w closure report will be	ontainment an at the facility i submitted incl	ea. The spill impa in August of 2011 uding data from t	cted an area that h , reference spill re he previous spill.	ad been cleaned up as far as port dated $2/16/11$. The area will
I hereby certify that the information given above	is true and complete to	the best of my	knowledge and u	inderstand that pur	suant to NMOCD rules and
regulations all operators are required to report and public health or the environment. The acceptance should their operations have failed to adequately or the environment. In addition, NMOCD accep- federal, etc. or local laws and/or regulations	nd/or file certain release r e of a C-141 report by the investigate and remedia tance of a C-141 report of	notifications a ne NMOCD m te contaminati does not reliev	nd perform correct arked as "Final R ion that pose a thr we the operator of	ctive actions for re- eport" does not re- eat to ground wate responsibility for o	leases which may endanger lieve the operator of liability r, surface water, human health compliance with any other
reactur, state, or local laws alloror regulations.			OIL CON	SERVATION	DIVISION
Signature: 1 Ou Danie					11
Printed Name: Tony Savoie		Approved by	Environmental S	Signed By	Mile Bennie
Title: Waste Management and Remediation Spe	cialist	Approval Da	QV 2 6 201	3 Expiration	Date:
The music management and Remediation Spe					
E-mail Address: tasavoie@basspet.com		Conditions o	f Approval:		Attached

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	2RP-2082
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 32.491141_

Longitude -104.007775_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden 8 Federal Battery #1	Site Type Exploration and Production
Date Release Discovered 11/25/2013	API# (<i>if applicable</i>) 30-015-26931

Unit Letter	Section	Township	Range	County
K	8	21S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: BLM______

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) 6	Volume Recovered (bbls) 3		
Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 2		
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)		
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		
Cause of Palaasa				

Cause of Release

The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product. The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report date d2/6/2011. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous spill.

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Form C-141 State of New Mexico		Incident ID	
Page 2	Oil Conservation Division	District RP	2RP-2082
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? If YES, for what reason(s) does the responsible party N/A □ Yes ⊠ No If YES, was immediate notice given to the OCD? By whom? To whom? When N/A		arty consider this a major release? /hen and by what means (phone, e	mail, etc)?
L	Initial Respon	se	

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

 \square The source of the release has been stopped.

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

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

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

If all the actions described above have \underline{not} been undertaken, explain why: N/A

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

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

Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:
OCD Only Received by:	Date:

Received/by (OCD:11/3/2020 31:12:49 PM

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2082
Facility ID	
Application ID	

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Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ 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.

eceived/by@CD:11/3/20	20 3: 12:49 PM			Page 22 of 80
Form C-141 State of New Mex		State of New Mexico		
Page 4	Oil Conservation Division	on	District RP	2RP-2082
			Facility ID	
			Application ID	
Printed Name: Signature:Kyle_Litt	are required to report and/or the certain release conment. The acceptance of a C-141 report by the stigate and remediate contamination that pose a se of a C-141 report does not relieve the operato Kyle Littrell	he OCD does not relieve the OCD does not relieve the threat to groundwater, surfar of responsibility for comp Title:SH&E S Date:12/31/2019 _ Telephone:432	orrective actions for fea e operator of liability sh ace water, human health liance with any other fe upervisor 	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
Received by:		Date:		

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Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	nJMW1333053660
District RP	2RP-2082
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. \boxtimes Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: _____Kyle Littrell_____ Title: ___SH&E Supervisor_____ Signature: Date: 12/31/2019 email: ____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____ **OCD Only** Received by: _____ Date: _____ Approved with Attached Conditions of Approval Denied Approved X Deferral Approved Signature: Bradford Billings Date: 07/23/2021

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

State of New Mexico Energy Minerals and Natural Resources

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

ARTESIA DISTRICT

AUG 1 3 2014

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Form C-141 Revised August 8, 2011

Sub**RECEPYED**ppropriate District Office in accordance with 19.15.29 NMAC.

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ManualC	-2703	572/4 ODCO 1 D		410020		OPERA	I UR	• •	Initi	al Report Final Rep
Address: 5	ompany: B	mod Suite 7	04 Carlel	340121		Telephone N	lo 575-887-73	20		
Facility Na	me: Golder	n 8 Federal I	Battery #1	the Well #1 wa	is	Facility Tyn	e: Exploration	and Pro	duction	-
P&A 2011		ir o r cucrur r		, ше непят не		r denney r yp	e. Expression			
Surface Ov	vner: Feder	al		Mineral O	wner:	Federal			API No	0. 30-015-26931
				LOCA	TIO	N OF REI	LEASE			
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	Vest Line	County
К	8	215	29E	1650	South		2180	West		Eddy
				Latitude <u>N 32.</u>	49114	Longitude	W 104.00777	5		
				NAT	URE	OF REL	EASE			
Type of Rel	ease: Crude	oil and produ	ced water			Volume of	Release: 3 Bbls	of	Volume	Recovered: 1 Bbl. oil and 17
21						crude oil a	nd 38 Bbls water		Bbls wat	er.
Source of R	elease: Victa	aulic fitting or	the produ	ction header.		Date and F	lour of Occurrent	ce:	Date and	Hour of Discovery: Date
Was Immed	iate Notice (Given?				If YES. To	Whom?	n	0/12/14	Time approximately 10.50 a.m.
		X	Yes [No 🗌 Not Re	quired	NMOCD E	Emergency #104			
By Whom?	Tony Savoie	2				Date and H	lour: 8/12/14 at 1	2:10 p.n	n.	
Was a Wate	rcourse Rea	ched?		- 1. S.		If YES, Vo	lume Impacting	the Wate	ercourse.	
		L	Yes 🗵	No			N		CONSE	
If a Waterco	ourse was Im	pacted, Descr	ibe Fully.	k					TESIA DIS	
								٨		0011
Describe Ar The spill im practicable i	ea Affected pacted appro	and Cleanup . oximately 150	Action Tal 0 sq. ft. of	ken.* the tank battery ended the tank battery ended to tank battery	arthen c	containment a	rea. The spill imp n August of 2011	bacted and, referen	n area that	ED had been cleaned up as far as 33. And the same are as
impacted by	spill referent vious two sp	nce 2RP-2082 pills.	. The area	will be re-address	ed, clea	ned up as req	urred and a new of	closure r	eport will	be submitted including data
from the pre										
I hereby cerr regulations a public health should their or the enviro federal, state	tify that the all operators n or the envi operations h onment. In a e, or local la	information g are required to ronment. The have failed to addition, NMC ws and/or reg	iven above to report at acceptane adequately DCD accep ulations.	e is true and compl nd/or file certain re- ce of a C-141 repo investigate and re- btance of a C-141 r	ete to the elease n rt by the mediat report d	he best of my otifications a e NMOCD m e contaminati oes not reliev	knowledge and t nd perform corre arked as "Final R on that pose a the e the operator of	indersta ctive act leport" c reat to g respons	nd that pur ions for rel loes not rel round wate ibility for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other
I hereby cerr regulations a public healt should their or the enviro federal, state Signature:	tify that the all operators n or the envi operations h onment. In a e, or local la	information g are required to ironment. The have failed to addition, NMO ws and/or reg	iven above to report a e acceptant adequately DCD accep ulations.	e is true and compl nd/or file certain re- ce of a C-141 repo investigate and re- ptance of a C-141 r	ete to tl elease n rt by th emediat report d	he best of my otifications a e NMOCD m e contaminati oes not reliev	knowledge and t nd perform corre arked as "Final R on that pose a the e the operator of OIL CON	indersta ctive act leport" c reat to g respons SERV	nd that pur ions for rel loes not rel round wate ibility for o	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other DIVISION
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I hereby cer regulations a public healtl should their or the enviro federal, state Signature: Printed Nam Title: Waste	tify that the all operators n or the envi operations h onment. In a e, or local la (600 he: Tony Sav Manageme	information g are required to ronment. The have failed to addition, NMC ws and/or reg <i>curre</i> voie nt and Remed	iven above to report at acceptand adequately OCD accept ulations.	e is true and compl nd/or file certain re ce of a C-141 repo v investigate and re otance of a C-141 r	ete to ti elease n rt by the mediat report d	he best of my otifications a e NMOCD m e contaminati oes not reliev Approved by Approval Dat	knowledge and und perform correct arked as "Final R on that pose a the e the operator of <u>OIL CON</u> Environmental S Signed By_ ue: 21444	Indersta ctive act leport" c reat to g respons SERV	nd that pur ions for rel loes not rel round wate ibility for c ATION	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other DIVISION
I hereby cer regulations : public healtl should their or the enviro federal, state Signature: Printed Nan Title: Waste E-mail Add	tify that the all operators n or the envi operations h onment. In a e, or local la (<u>Guy</u> he: Tony Sav Manageme	information g are required to ironment. The addition, NMC ws and/or reg <u>D</u> ume voie nt and Remed e@basspet.co	iven above to report at acceptan adequately DCD accep ulations.	e is true and compl nd/or file certain re ce of a C-141 repo y investigate and re otance of a C-141 r	ete to tl elease n rt by the mediat report d	he best of my otifications a e NMOCD m e contaminati oes not reliev Approved by Approval Da Conditions of	knowledge and und perform correct arked as "Final R on that pose a the e the operator of <u>OIL CON</u> Environmental S Environmental S Environmental S Environmental S Environmental S Environmental S	Indersta ctive act leport" c reat to g respons SERV	nd that pur ions for rel loes not rel round wate ibility for c ATION	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other DIVISION Mater Date:
I hereby cer regulations a public health should their or the enviro federal, state Signature: Printed Nam Title: Waste E-mail Adda Date:8/13/1	tify that the all operators n or the envi operations h onment. In a e, or local la (<u>6</u> me: Tony Sav Manageme ress: tasavoi	information g are required to ronment. The have failed to addition, NMC ws and/or reg <i>mume</i> voie nt and Remed e@basspet.co	iven above to report at acceptan- adequately DCD accept ulations.	e is true and compl nd/or file certain re ce of a C-141 repo v investigate and re otance of a C-141 r cialist	ete to ti elease n rt by the mediat report d	he best of my otifications a e NMOCD m e contaminati oes not reliev Approved by <u>Approval Dat</u> Conditions of Reme Guidelin	knowledge and und perform correct arked as "Final R on that pose a three the operator of <u>OIL CON</u> Environmental S Environmental S Environmental S Environmental S Gigned By the: DIUUUU f Approval: diation per C es. SUBMIT R	SERV	nd that pur ions for rel loes not rel round wate ibility for c ATION Expiration	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other DIVISION Muter Date: NA Attached

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	2RP-2439
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 32.491141_

Longitude -104.007775_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden 8 Federal Battery #1	Site Type Exploration and Production
Date Release Discovered 08/12/2014	API# (<i>if applicable</i>) 30-015-26931

Unit Letter	Section	Township	Range	County
K	8	21S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: BLM______

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) 3	Volume Recovered (bbls) 1
Produced Water	Volume Released (bbls) 27	Volume Recovered (bbls) 17
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Palaasa		

Cause of Release

A Victaulic gasket failed on the production header due to a normally open valve was shut causing pressure to build up and blow out the gasket. The gasket was replaced and the valve was returned to normal. The spill impacted approximately 1500 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference 2RP-0633 and the same areas impacted by spill reference 2RP-2082. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous two spills.

Re

Form C-141 State of New Mexico		Incident ID	
age 2	Oil Conservation Division	District RP	2RP-2439
0		Eacility ID	2141-2437
		Application ID	
Was this a major	If YES, for what reason(s) does the responsible part	y consider this a major release	2?
release as defined by $10.15, 20.7(A)$ NMAC2	Volume of release is greater than 25 bbls.		
19.13.29.7(A) INMAC?			
Yes No			
If YES, was immediate n	otice given to the OCD? By whom? To whom? Who	en and by what means (phone,	, email, etc)?
Tony Savoie (XTO) cont	acted the NMOCD emergency operator #104 on 08/12	2/2014 at 12:10 pm.	
	Initial Response	e	
		•	
The responsible	party must undertake the following actions immediately unless they	could create a safety hazard that wo	ould result in injury
\square The source of the rele	ease has been stopped.		
The impacted area ha	as been secured to protect human health and the enviro	onment.	
Released materials ha	ave been contained via the use of berms or dikes, abso	rbent pads, or other containm	ent devices.
All free liquids and r	ecoverable materials have been removed and managed	l appropriately.	
If all the actions describe	d above have not been undertaken, explain why:		
N/A			
Dor 10 15 20 8 D (4) NN	IAC the regressible party may commance remediation	n immediately often discovery	-f

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.

within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:

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Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2439
Facility ID	
Application ID	

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Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ 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.

eceived/by OCD:11/3/20	2 <i>0</i> 83:12:49 PM			Page 28 of 80
Form C-141 State of New Mexico			Incident ID	
Page 4 Oi	Oil Conservation Divisio	Oil Conservation Division	District RP	2RP-2439
			Facility ID	
			Application ID	
Public health or the envir failed to adequately inves addition, OCD acceptanc and/or regulations. Printed Name: Signature: email:Kyle_Litt	are required to report and/of the certain refrease if onment. The acceptance of a C-141 report by the stigate and remediate contamination that pose a t e of a C-141 report does not relieve the operator Kyle Littrell	e OCD does not relieve the hreat to groundwater, surfa of responsibility for comp Title:SH&E S Date:12/31/2019 Telephone:432	e operator of liability sh ece water, human health liance with any other fe upervisor	or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

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Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2439
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Fach of the following items must be co.	nfirmed as part of any request for deferral of remediation			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Kyle Littrell	Title:SH&E Supervisor			
Signature:	Date:12/31/2019			
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331			
OCD Only				
Received by:	Date:			
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved			
Signature:	Date:			

LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432,704,5178



January 2, 2020

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

RE: Deferral Request – Addendum to Original Closure Request Golden 8 Federal Battery #1 Remediation Permit Numbers 2RP-521, 2RP-633, 2RP-2082, and 2RP-2439 Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request as an addendum to a previously submitted Closure Request detailing site assessment and soil sampling activities at the Golden 8 Federal Battery #1 (Site) in Unit K, Section 8, Township 21 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The original Closure Request addressed seven historical releases that occurred at the same well pad location. The New Mexico Oil Conservation Division (NMOCD) approved closure of three of the historical releases, but requested additional information for deferral consideration of four releases that occurred around production equipment. The purpose of the site assessment and soil sampling activities documented in this report was to delineate previously identified impacted soil associated with those four historical releases. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Deferral Request, requesting deferral of final remediation for these release events.

RELEASE BACKGROUND

2RP-521

On June 14, 2010 a drain line connection on a tank failed due to internal corrosion releasing 90 barrels (bbls) of crude oil into the lined earthen tank battery containment. The remaining oil in the tank was removed, the tank was cleaned, inspected and repaired. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 80 bbls of crude oil were recovered. The heavily saturated soils were removed. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on June 22, 2010, and the NMOCD subsequently issued RP Number 2RP-521.





2RP-633

On February 12, 2011 a heater-treater malfunction caused an oil product tank to overflow releasing 310 bbls of crude oil to the lined earthen containment and pasture outside the containment. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 290 bbls of crude oil were recovered.

2RP-2082

On November 25, 2013 a fire tube on the heater-treater developed a leak resulting in a release of 6 bbls of crude oil and 15 bbls of produced water to the lined earthen containment. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 3 bbls of crude oil and 2 bbls of produced water were recovered.

2RP-2439

On August 12, 2014 a Victaulic gasket failed on the production header due to a blow out on the gasket resulting in a release of 3 bbls of crude oil and 38 bbls of produced water. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 1 bbl of crude oil and 17 bbls of water were recovered. The gasket was replaced.

XTO submitted a Closure Request dated May 25, 2018, for this site addressing seven separate historical releases. The NMOCD approved closure of 2RP-3612, 2RP-4017, and 2RP-4601 via email dated June 6, 2018. In consideration of the other historical releases, which were inside the tank battery, NMOCD responded with a recommendation to attempt a delineation, remediate as much as possible, and defer anything left until final plugging and abandonment.

SITE CLOSURE STANDARDS

The original site work and subsequent sampling occurred prior to promulgation of new spill response requirements listed in Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). As described and approved in the original Closure Request, closure standards were established as follows: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region at the time of sampling and previous reporting, LTE applied a site-specific chloride action level of 600 mg/kg.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On June 7, 2018 LTE evaluated the release extent based on information provided on the Form C-141 and visual observations. LTE personnel collected six preliminary soil samples (SS06-SS11) within the lined earthen containment. Soil from the soil sample location was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID)





and Hach[®] chloride QuanTab[®] test strips, respectively. The preliminary soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 2.

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 shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (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.

Based on laboratory analytical results for chloride in preliminary soil sample SS09, additional vertical delineation was conducted at that location.

On June 13, 2018 LTE personnel advanced a borehole via hand-auger at one location within the lined tank battery containment on the northeastern side of the caliche well pad. The borehole was advanced at SS09 to delineate the impacted soils. Three soil samples were collected at depths ranging from 7 feet and 12.5 feet bgs (BH01A through BH01C). Soil from the soil sample location 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 for each sample were documented on a lithologic/soil sampling log and are included as Attachment 1. The borehole was backfilled with the soil removed and LTE personnel repaired the liner. The borehole and vertical delineation soil sample location is depicted on Figure 2.

ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS09 and BH01A, collected at depths ranging from 0.5 feet to 7 feet bgs, indicated that chloride concentrations exceeded 600 mg/kg. Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the documented closure standards in all other soil samples. Laboratory analytical results are presented on Figure 2 and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 3.

DEFERRAL REQUEST

LTE personnel advanced one borehole in the location of the SS09 in the lined earthen containment. Delineation soil samples BH01A through BH01C were collected from within the lined tank battery containment from depths ranging from 0.5 foot to 12.5 feet bgs to assess for the presence or absence of soil impacts as a result of the four releases in the lined earthen containment. Laboratory analytical results indicated that chloride concentrations exceeded the the previously documented closure standards in soil samples SS09 and BH01A, collected at





depths ranging from 0.5 feet to 7 feet bgs. Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the previously documented closure standards in soil samples SS06 through SS08, SS10, SS11 and BH01B through BH01C at depths of approximately 0.5 feet and 12.5 feet bgs, respectively.

Residual impacted soil in the area of delineation borehole BH01 was left in place under the lined containment in which active operating equipment exists. Vertical delineation was achieved at approximately 10 feet bgs. The lateral extent of impacted soil remaining in place is defined by the other samples documented in this report and the numerous samples collected outside the containment and documented in the original Closure Request. An estimated 555 cubic yards of impacted soil remains in place surrounding borehole BH01 and beneath the lined tank battery containment, assuming a maximum 10-foot depth based on soil sample BH01B collected at a depth of 10 feet bgs.

Because depth to groundwater is estimated to be greater than 200 feet bgs, there no nearby surface features, and the impacted soil exists above and beneath a liner, LTE and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The lined containment was repaired by XTO and will restrict potential vertical migration of residual impacts. XTO requests deferral of final remediation for this release event until final reclamation of the well pad or major construction, whichever comes first. An updated Form C-141 is attached.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Monissey

Tacoma Morrissey Staff Geologist

Ashley L. Ager

Ashley L. Ager, P.G. Senior Geologist

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





Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations

Table 1Soil Analytical Results

Attachment 1 Lithologic/Soil Sampling Logs

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports



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FIGURES

LT?



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TABLE



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TABLE 1 SOIL ANALYTICAL RESULTS

GOLDEN 8 FEDERAL CENTRAL TANK BATTERY #1 REMEDIATION PERMIT NUMBER 2RP-521, 2RP-633, 2RP-2082, AND 2RP-2439 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	1 Closure Crit	eria	10	NE	NE	NE	50	NE	NE	NE	NE	5,000	600
SS06 @ 6" bgs	0.5	06/07/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	46.8	<15.0	46.8	46.8	44.0
SS07	0.5	06/07/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	203	21.3	203	224	42.4
SS08	0.5	06/07/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	172	20.3	172	192	<4.94
SS09	0.5	06/07/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	659	3,900	129	4,550	4,690	1,220
SS10	0.5	06/07/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	325
SS11	0.5	06/07/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	210	19.2	210	229	164
BH01 A	7	06/13/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	331	24.0	331	355	1,290
BH01 B	10.5	06/13/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	126	<15.0	126	126	212
BH01 C	12.5	06/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	258	17.1	258	275	107

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





LT Environm Advances	Personal, Inc.		LT En 508 W Carlsbad Compliance	vironment est Stevens , New Mexi · Engineering	al, Inc. s Street co 88220 g · Remedi) iation	Identifier: BH01 Project Name: Golden 8 Federal #1	Date: RP Number: 2RP-521, 2RP-	6/13/2019 633, 2RP-2082, and 2RP-2439					
		LITHO	LOGIC / SO	IL SAMP	LING LO)G	Logged By: L. Laumbach	Method:	Hand Auger					
Lat/Long:	8 104 00	Q147		Field Scree	ening:		Hole Diameter: 3"	Total Depth:	12.5'					
Comment	s:	014/												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks							
				0										
				1										
				2										
				3										
	985	352		4	4'	S	Caliche/sand light brown-	- hydrocarbon o	odor detected					
				5										
			DUO	6										
	1160	215	ВH0 А	1 7	7'	S	sand/ c	lay brown						
				8										
	462	95.4		9	9.5'	S	sand/clay brown- no staining	g or hydrocarbo	n odor detected					
	156.4	492	BH01	в ¹⁰	10.5'		sand/clay brown- no staining	g or hydrocarbo	n odor detected					
	50.1	630		11	11.5'		caliche/sand- no staining c	or hydrocarbon	odor detected					
	65.1	115	BH01	C 12	12.5'		caliche/sand- no staining or hydro	carbon odor de	tected; auguer refusal					









Analytical Report 588640

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal #1

11-JUN-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





11-JUN-18 Project Manager: Adrian Baker

LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): **588640** Golden 8 Federal #1 Project Address: NM 2RP-2439

Adrian Baker:

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) 588640. 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. 588640 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,

fession knomer

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

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



Sample Cross Reference 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS06 @ 6"bgs.	S	06-07-18 10:00	6 In	588640-001
SS07	S	06-07-18 10:15	6 In	588640-002
SS08	S	06-07-18 10:35	6 In	588640-003
SS09	S	06-07-18 10:50	6 In	588640-004
SS10	S	06-07-18 11:00	6 In	588640-005
SS11	S	06-07-18 10:20	6 In	588640-006

۰,



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Golden 8 Federal #1

Project ID: Work Order Number(s): 588640 Report Date: 11-JUN-18 Date Received: 06/08/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3052932 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3052970 BTEX by EPA 8021B

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



Project Id:Contact:Adrian BakerProject Location:NM 2RP-2439

Certificate of Analysis Summary 588640

LT Environmental, Inc., Arvada, CO Project Name: Golden 8 Federal #1



Date Received in Lab:Fri Jun-08-18 10:09 amReport Date:11-JUN-18Project Manager:Jessica Kramer

	Lab Id:	588640-0	001	588640-0	002	588640-0	003	588640-	004	588640-0	005	588640-0	006
Analysis Requested	Field Id:	SS06@6	"bgs.	SS07		SS08		SS09		SS10		SS11	
Analysis Requested	Depth:	6- In		6- In		6- In		6- In		6- In		6- In	
	Matrix:	SOIL	,	SOIL									
	Sampled:	Jun-07-18	10:00	Jun-07-18	10:15	Jun-07-18	10:35	Jun-07-18	10:50	Jun-07-18	11:00	Jun-07-18	10:20
BTEX by EPA 8021B	Extracted:	Jun-09-18	07:55	Jun-09-18	07:55	Jun-09-18	07:55	Jun-10-18 08:30		Jun-09-18 07:55		Jun-09-18 07:55	
	Analyzed:	Jun-10-18	00:43	Jun-10-18	01:01	Jun-10-18	01:19	Jun-10-18	21:34	Jun-10-18 (01:55	Jun-10-18	02:13
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
m,p-Xylenes		< 0.00398	0.00398	< 0.00397	0.00397	< 0.00402	0.00402	< 0.00399	0.00399	< 0.00401	0.00401	< 0.00398	0.00398
o-Xylene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	<0.00199	0.00199
Total Xylenes		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	<0.00199	0.00199
Total BTEX		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Inorganic Anions by EPA 300	Extracted:	Jun-08-18	15:15	Jun-08-18 15:15		Jun-08-18 15:15		Jun-08-18	15:15	Jun-08-18	15:15	Jun-08-18	15:15
	Analyzed:	Jun-09-18	01:09	Jun-09-18	01:15	Jun-09-18	01:20	Jun-09-18	01:26	Jun-09-18 (01:31	Jun-09-18	01:47
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		44.0	4.93	42.4	4.99	<4.94	4.94	1220	24.7	325	4.96	164	4.98
TPH by SW8015 Mod	Extracted:	Jun-08-18	14:00	Jun-08-18	14:00	Jun-08-18	14:00	Jun-08-18	14:00	Jun-08-18	14:00	Jun-08-18	14:00
	Analyzed:	Jun-09-18	01:03	Jun-09-18	01:23	Jun-09-18	01:44	Jun-09-18	02:04	Jun-09-18 (02:25	Jun-09-18	02:45
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	659	74.8	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		46.8	15.0	203	15.0	172	14.9	3900	74.8	<14.9	14.9	210	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0	21.3	15.0	20.3	14.9	129	74.8	<14.9	14.9	19.2	15.0
Total TPH		46.8	15.0	224	15.0	192	14.9	4690	74.8	<14.9	14.9	229	15.0

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

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Jessica Kramer Project Assistant

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: Lab Sample Id	SS06 @ 6''bgs. l: 588640-001		Matrix: Date Colle	Soil cted: 06.07.18 10.00	Date Received:06.08.18 10.09 Sample Depth: 6 In			
Analytical Method:Inorganic Anions by EPA 300Tech:OJSAnalyst:SCMSeq Number:3052933			Date Prep:	06.08.18 15.15		Prep Method: E30 % Moisture: Basis: Wet	0P Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	44.0	4.93	mg/kg	06.09.18 01.09		1

Analytical Method: TPH by SW8015	Mod					Prep Method: TX1005P			
Tech: ARM					%	6 Moisture:			
Analyst: ARM		Date Pre	p: 06.08	.18 14.00	E	Basis: We	t Weight		
Seq Number: 3052902									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.09.18 01.03	U	1	
Diesel Range Organics (DRO)	C10C28DRO	46.8	15.0		mg/kg	06.09.18 01.03		1	
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.09.18 01.03	U	1	
Total TPH	PHC635	46.8	15.0		mg/kg	06.09.18 01.03		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	91	%	70-135	06.09.18 01.03			
o-Terphenyl		84-15-1	96	%	70-135	06.09.18 01.03			

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:	SS06 @ 6''bgs.		Matrix:	Soil		Date Received	:06.08.18 10.0	19
Lab Sample Id	: 588640-001		Date Colle	ected: 06.07.18 10.00		Sample Depth:	: 6 In	
Analytical Me	thod: BTEX by EPA 80	21B				Prep Method:	SW5030B	
Tech:	ALJ					% Moisture:		
Analyst:	ALJ		Date Prep	: 06.09.18 07.55		Basis:	Wet Weight	
Seq Number:	3052932							
Parameter		Cas Number	Result	RL	Units	Analysis Da	nte Flag	Dil
Benzene		71-43-2	< 0.00199	0.00199	mg/kg	06.10.18 00.	43 U	1

1,4-Difluorobenzene		540-36-3	99	%	70-130	06.10.18 00.43		
4-Bromofluorobenzene		460-00-4	104	%	70-130	06.10.18 00.43		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Total BTEX		< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.10.18 00.43	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1
Benzene	/1-43-2	<0.00199	0.00199		mg/kg	06.10.18 00.43	U	1

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:	SS07		Matrix:	Soil		Date Received:06.0)8.18 10.09	I	
Lab Sample Id	l: 588640-002		Date Colle	ected: 06.07.18 10.15	Sample Depth: 6 In				
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method: E30	0P		
Tech:	OJS					% Moisture:			
Analyst:	SCM		Date Prep:	06.08.18 15.15		Basis: Wet	Weight		
Seq Number:	3052933								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	42.4	4.99	mg/kg	06.09.18 01.15		1	

Analytical Method: TPH by SW80)15 Mod				P	rep Method: TX	(1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	o: 06.08.	18 14.00	E	Basis: We	et Weight	
Seq Number: 3052902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.09.18 01.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	203	15.0		mg/kg	06.09.18 01.23		1
Oil Range Hydrocarbons (ORO)	PHCG2835	21.3	15.0		mg/kg	06.09.18 01.23		1
Total TPH	PHC635	224	15.0		mg/kg	06.09.18 01.23		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	06.09.18 01.23		
o-Terphenyl		84-15-1	95	%	70-135	06.09.18 01.23		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:	SS07		Matrix:	Soil		Date Received:	06.08.18 10.0	9
Lab Sample Id	1: 588640-002		Date Colle	ected: 06.07.18 10.15		Sample Depth:	6 In	
Analytical Me	ethod: BTEX by EPA 80	21B				Prep Method:	SW5030B	
Tech:	ALJ					% Moisture:		
Analyst:	ALJ		Date Prepa	: 06.09.18 07.55		Basis:	Wet Weight	
Seq Number:	3052932							
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Benzene		71-43-2	< 0.00198	0.00198	mg/kg	06.10.18 01.0)1 U	1

Benzene	71-43-2	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	06.10.18 01.01	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	06.10.18 01.01		
1,4-Difluorobenzene		540-36-3	95	%	70-130	06.10.18 01.01		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:	SS08		Matrix:	Soil		Date Received	:06.08.18	10.09
Lab Sample Id	: 588640-003		Date Collec	cted: 06.07.18 10.35		Sample Depth:	: 6 In	
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method:	E300P	
Tech:	OJS					% Moisture:		
Analyst:	SCM		Date Prep:	06.08.18 15.15		Basis:	Wet Wei	ght
Seq Number:	3052933							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Fla	ag Dil
Chloride		16887-00-6	<4.94	4.94	mg/kg	06.09.18 01.	20 U	J 1

Analytical Method: TPH by SW801	5 Mod		rep Method: T	TX1005P				
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	o: 06.08	.18 14.00	E	Basis: W	et Weight	
Seq Number: 3052902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	06.09.18 01.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	172	14.9		mg/kg	06.09.18 01.44		1
Oil Range Hydrocarbons (ORO)	PHCG2835	20.3	14.9		mg/kg	06.09.18 01.44		1
Total TPH	PHC635	192	14.9		mg/kg	06.09.18 01.44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	06.09.18 01.44		
o-Terphenyl		84-15-1	93	%	70-135	06.09.18 01.44		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:	SS08		Matrix:	Soil		Date Received:0	6.08.18 10.0	9
Lab Sample Id: 588640-003			Date Col	lected: 06.07.18 10.35		Sample Depth: 6	In	
Analytical Me	ethod: BTEX by EPA 8	021B				Prep Method: S	W5030B	
Tech:	ALJ					% Moisture:		
Analyst:	ALJ		Date Pre	p: 06.09.18 07.55		Basis: W	Vet Weight	
Seq Number:	3052932							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene		71-43-2	< 0.00201	0.00201	mg/kg	06.10.18 01.19	U	1
Tohuono		108 88 3	<0.00201	0.00201	malka	06 10 18 01 10	I	1

			0.00-0-				-	-
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.10.18 01.19	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	97	%	70-130	06.10.18 01.19		
4-Bromofluorobenzene		460-00-4	110	%	70-130	06.10.18 01.19		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: Lab Sample Id	SS09 1: 588640-004		Matrix: Date Collec	Soil ted: 06.07.18 10.50		Date Received:06 Sample Depth: 6 I	.08.18 10.09 n)
Analytical Me Tech: Analyst: Seq Number:	thod: Inorganic Anions OJS SCM 3052933	by EPA 300	Date Prep:	06.08.18 15.15		Prep Method: E3 % Moisture: Basis: W	00P et Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1220	24.7	mg/kg	06.09.18 01.26		5
Analytical Me	thod: TPH by SW8015	Mod				Prep Method: TX	K1005P	

Tech:			% Moisture:							
Analyst:	ARM		Date Pre	ep:	06.08	18 14.00	В	asis: We	t Weight	
Seq Number:	3052902									
Parameter		Cas Number	Result	RL			Units	Analysis Date	Flag	Dil
Gasoline Range	Hydrocarbons (GRO)	PHC610	659	74	4.8		mg/kg	06.09.18 02.04		5
Diesel Range Or	ganics (DRO)	C10C28DRO	3900	74	4.8		mg/kg	06.09.18 02.04		5
Oil Range Hydro	ocarbons (ORO)	PHCG2835	129	74	4.8		mg/kg	06.09.18 02.04		5
Total TPH		PHC635	4690	74	4.8		mg/kg	06.09.18 02.04		5
Surrogate			Cas Number	% Recov	ery	Units	Limits	Analysis Date	Flag	
1-Chlorooct	tane		111-85-3		121	%	70-135	06.09.18 02.04		
o-Terpheny	1		84-15-1		117	%	70-135	06.09.18 02.04		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

D		71 42 0	.0.000000	00200	л	06 10 10 21	24 11	. 1
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Fla	ıg Dil
Seq Number:	3052970							
Analyst:	ALJ		Date Prep:	06.10.18 08.30		Basis:	Wet Wei	ght
Tech:	ALJ					% Moisture:		
Analytical Me	ethod: BTEX by EPA 80	21B				Prep Method:	SW5030	В
Lab Sample Id: 588640-004			Date Collec	Sample Depth: 6 In				
Sample Id:	SS09		Matrix:	Soil		Date Received	:06.08.18	10.09

						-	-	
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.10.18 21.34	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	70-130	06.10.18 21.34		
4-Bromofluorobenzene		460-00-4	100	%	70-130	06.10.18 21.34		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:	SS10		Matrix:	Soil		Date Received:06	.08.18 10.09	
Lab Sample Id: 588640-005			Date Collec	ted: 06.07.18 11.00	Sample Depth: 6 In			
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method: E3	300P	
Tech:	OJS					% Moisture:		
Analyst:	SCM		Date Prep:	06.08.18 15.15		Basis: W	et Weight	
Seq Number:	3052933							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	325	4.96	mg/kg	06.09.18 01.31		1

Analytical Method: TPH by SW801:	5 Mod				P	Prep Method: T2	K1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Pre	p: 06.08	.18 14.00	E	Basis: W	et Weight	
Seq Number: 3052902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	06.09.18 02.25		
o-Terphenyl		84-15-1	98	%	70-135	06.09.18 02.25		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

B		51.40.0	0.00000	00000	a	0 < 10 10 01		* *	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil
Seq Number:	3052932								
Analyst:	ALJ		Date Prep:	06.09.18 07.55		Basis:	Wet V	Weight	
Tech:	ALJ					% Moisture:			
Analytical Me	thod: BTEX by EPA 802	21B				Prep Method:	SW5	030B	
Lab Sample Io	l: 588640-005		Date Collect	ed: 06.07.18 11.00		Sample Depth	:6 In		
Sample Id:	SS10		Matrix:	Soil		Date Received	1:06.08	8.18 10.09	9

Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.10.18 01.55	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	06.10.18 01.55		
4-Bromofluorobenzene		460-00-4	113	%	70-130	06.10.18 01.55		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: Lab Sample Id	SS11 1: 588640-006		Matrix: Date Collect	Soil ed: 06.07.18 10.20		Date Received Sample Depth	l:06.08.18 10.09 : 6 In)
Analytical Me Tech: Analyst: Seq Number:	ethod: Inorganic Anions OJS SCM 3052933	by EPA 300	Date Prep:	06.08.18 15.15		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis D	ate Flag	Dil
Chloride		16887-00-6	164	4.98	mg/kg	06.09.18 01	47	1
Analytical Me Tech: Analyst:	ethod: TPH by SW8015 ARM ARM	Mod	Date Prep:	06.08.18 14.00		Prep Method: % Moisture: Basis:	TX1005P Wet Weight	
C 1 1								

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.09.18 02.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	210	15.0		mg/kg	06.09.18 02.45		1
Oil Range Hydrocarbons (ORO)	PHCG2835	19.2	15.0		mg/kg	06.09.18 02.45		1
Total TPH	PHC635	229	15.0		mg/kg	06.09.18 02.45		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	06.09.18 02.45		
o-Terphenyl		84-15-1	105	%	70-135	06.09.18 02.45		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:	SS11		Matrix:	Soil		Date Received:06	.08.18 10.09)
Lab Sample Io	1: 588640-006		Date Coll	ected: 06.07.18 10.20		Sample Depth: 6 I	ĺn	
Analytical Me	ethod: BTEX by EPA 80	21B				Prep Method: SW	V5030B	
Tech:	ALJ					% Moisture:		
Analyst:	ALJ		Date Prep	o: 06.09.18 07.55		Basis: W	et Weight	
Seq Number:	3052932							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene		71-43-2	< 0.00199	0.00199	mg/kg	06.10.18 02.13	U	1
Toluene		108-88-3	< 0.00199	0.00199	mg/kg	06.10.18 02.13	U	1

Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.10.18 02.13	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	87	%	70-130	06.10.18 02.13		
4-Bromofluorobenzene		460-00-4	98	%	70-130	06.10.18 02.13		

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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.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable

SMP Clie	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Golden 8 Federal #1

Analytical Method:	Inorganic Anions b	y EPA 300						Р	rep Metho	od: E3	00P	
Seq Number:	3052933			Matrix:	Solid				Date Pre	ep: 06.	08.18	
MB Sample Id:	7656302-1-BLK		LCS San	nple Id:	7656302-2	I-BKS		LCS	D Sample	e Id: 76	56302-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chlorida	5 00	250	270	100	0.77	107	00 110	1	20		06 00 18 00.05	

Analytical Method:	Inorganic A	nions b	y EPA 300						P	rep Meth	od: E3	00P	
Seq Number:	3052933				Matrix:	Soil				Date Pr	ep: 06	.08.18	
Parent Sample Id:	588639-001			MS Sar	nple Id:	588639-00	01 S		MS	D Sample	e Id: 58	8639-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag

Analytical Method:	Inorganic A	nions b	y EPA 300						Pı	rep Methe	od: E30	00P	
Seq Number:	3052933				Matrix:	Soil				Date Pr	ep: 06.0	08.18	
Parent Sample Id:	588640-005			MS Sar	nple Id:	588640-00)5 S		MS	D Sample	e Id: 588	640-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride		325	248	583	104	584	104	90-110	0	20	mg/kg	06.09.18 01:36	

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3052902 7656356-1	W8015 M 6 -BLK	od	LCS Sar	Matrix: nple Id:	Solid 7656356-	1-BKS		F LCS	Prep Method Date Prep SD Sample	1: TX p: 06.0 Id: 765	1005P)8.18 6356-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	943	94	954	95	70-135	1	20	mg/kg	06.08.18 19:37	
Diesel Range Organics (DRO)	<15.0	1000	993	99	1000	100	70-135	1	20	mg/kg	06.08.18 19:37	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSE %Rec	D LCSI E Flag	D I ç	limits	Units	Analysis Date	
1-Chlorooctane		101		1	22		125		7	0-135	%	06.08.18 19:37	
o-Terphenyl		106		1	08		107		7	0-135	%	06.08.18 19:37	

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

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Golden 8 Federal #1

Analytical Method:TPH by SW8015 ModSeq Number:3052902Parent Sample Id:588620.001				Matrix: Soil MS Sample Id: 588620-001 S				Prep Method: TX1005P Date Prep: 06.08.18 MSD Sample Id: 588620-001 SD					
Parent Sample Id:	588620-001			MS San	nple Id:	588620-0	01 S		MS	D Sample 1	ld: 588	620-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	998	890	89	903	90	70-135	1	20	mg/kg	06.08.18 20:38	
Diesel Range Organics (DRO)	<15.0	998	924	93	942	94	70-135	2	20	mg/kg	06.08.18 20:38	
Surrogate				N %	1S Rec	MS Flag	MSD %Rec	MSD Flag	I	imits	Units	Analysis Date	
1-Chlorooctane				1	22		124		7	0-135	%	06.08.18 20:38	
o-Terphenyl				1	07		107		7	0-135	%	06.08.18 20:38	

Analytical Method:	BTEX by EPA 802	lB]	Prep Metho	od: SW	5030B	
Seq Number:	3052932			Matrix:	Solid				Date Pre	ep: 06.0	09.18	
MB Sample Id:	7656352-1-BLK		LCS Sar	nple Id:	7656352-	1-BKS		LC	SD Sample	e Id: 765	6352-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	it Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0866	86	0.0847	85	70-130	2	35	mg/kg	06.09.18 18:38	
Toluene	< 0.00202	0.101	0.0902	89	0.0897	90	70-130	1	35	mg/kg	06.09.18 18:38	
Ethylbenzene	< 0.00202	0.101	0.0922	91	0.0914	91	70-130	1	35	mg/kg	06.09.18 18:38	
m,p-Xylenes	< 0.00403	0.202	0.192	95	0.187	94	70-130	3	35	mg/kg	06.09.18 18:38	
o-Xylene	< 0.00202	0.101	0.0929	92	0.0977	98	70-130	5	35	mg/kg	06.09.18 18:38	
Surrogate	MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re) LCS c Flag	D] g	Limits	Units	Analysis Date	
1,4-Difluorobenzene	89		Ģ	95		94			70-130	%	06.09.18 18:38	
4-Bromofluorobenzene	93		Ģ	95		99		~	70-130	%	06.09.18 18:38	

Analytical Method:	BTEX by EPA 8021	B						I	Prep Metho	d: SW	5030B	
Seq Number:	3052970			Matrix:	Solid				Date Pre	p: 06.1	0.18	
MB Sample Id:	7656395-1-BLK		LCS San	nple Id:	7656395-	1-BKS		LCS	SD Sample	Id: 765	6395-1-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	0.0879	88	0.0862	85	70-130	2	35	mg/kg	06.10.18 19:28	
Toluene	< 0.00200	0.100	0.0934	93	0.0907	90	70-130	3	35	mg/kg	06.10.18 19:28	
Ethylbenzene	< 0.00200	0.100	0.0917	92	0.0893	88	70-130	3	35	mg/kg	06.10.18 19:28	
m,p-Xylenes	< 0.00401	0.200	0.189	95	0.185	92	70-130	2	35	mg/kg	06.10.18 19:28	
o-Xylene	< 0.00200	0.100	0.0921	92	0.0897	89	70-130	3	35	mg/kg	06.10.18 19:28	
Surrogate	MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSE %Rec	LCSI Flag		Limits	Units	Analysis Date	
1,4-Difluorobenzene	93		ç	99		94		7	0-130	%	06.10.18 19:28	
4-Bromofluorobenzene	87		ç	98		94		7	0-130	%	06.10.18 19:28	

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

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LT Environmental, Inc.

Golden 8 Federal #1

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3052932 588112-021	1B] MS San	Matrix: ple Id:	Soil 588112-02	21 S		Prep Method: SW5030B Date Prep: 06.09.18 MSD Sample Id: 588112-021 SD							
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag			
Benzene	< 0.00200	0.100	0.0473	47	0.0544	55	70-130	14	35	mg/kg	06.09.18 19:16	Х			
Toluene	< 0.00200	0.100	0.0502	50	0.0567	57	70-130	12	35	mg/kg	06.09.18 19:16	Х			
Ethylbenzene	< 0.00200	0.100	0.0468	47	0.0537	54	70-130	14	35	mg/kg	06.09.18 19:16	Х			
m,p-Xylenes	< 0.00401	0.200	0.0968	48	0.111	56	70-130	14	35	mg/kg	06.09.18 19:16	Х			
o-Xylene	< 0.00200	0.100	0.0465	47	0.0653	66	70-130	34 35		mg/kg	06.09.18 19:16	Х			
Surrogate			N %]	IS Rec	MS Flag	MSD %Ree	o MSI c Flag) I g	Limits	Units	Analysis Date				
1,4-Difluorobenzene			8	88		106		7	0-130	%	06.09.18 19:16				
4-Bromofluorobenzene			9	95		104		7	0-130	%	06.09.18 19:16				

Analytical Method:	Prep Meth	od: SW:	5030B													
Seq Number:	3052970		1	Matrix:	Soil		Date Prep: 06.10.18									
Parent Sample Id:	588647-004		MS San	ple Id:	588647-0	04 S		M	647-004 SD							
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	s %RPD RPD Limit		it Units	Analysis Date	Flag				
Benzene	< 0.00202	0.101	0.0756	75	0.0760	75	70-130	1	35	mg/kg	06.10.18 20:04					
Toluene	< 0.00202	0.101	0.0813	80	0.0797	79	70-130	2	35	mg/kg	06.10.18 20:04					
Ethylbenzene	< 0.00202	0.101	0.0814	81	0.0819	81	70-130	1	35	mg/kg	06.10.18 20:04					
m,p-Xylenes	< 0.00404	0.202	0.167	83	0.171	85	70-130	2	35	mg/kg	06.10.18 20:04					
o-Xylene	< 0.00202	0.101	0.0767	76	0.0782	77	70-130	2	35	mg/kg	06.10.18 20:04					
Surrogate				IS Rec	MS Flag	MSD %Red	MSI c Flag)]	Limits	Units	Analysis Date					
1,4-Difluorobenzene			9	8		98		7	70-130	%	06.10.18 20:04					
4-Bromofluorobenzene			10	04		106		7	70-130	%	06.10.18 20:04					

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

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Midland Toya	10000 0000 10000
San Antonio,	tandard since 1990 15 (281-240-4200)
	ABORATORIES

CHAIN OF CUSTODY

	3	1 June by Call	Deliner Blood by Son	TAT Starts Da	3 Day EMERGE	2 Day EMERGE	Next Day EMER	Same Day TAT	Turnaround	10	9	8	7	6 S	5 6	4	3	2	-	No	c	Samplers's Name	Project Contact: Adrian Baker	Abaker@LTEnv.com	3300 North "A" Street	Company Address:	Company Name / Branch: LT Environmental, Inc	Client / Reportir		Dallas Texas (214-§	Setting the Standau Stafford,Texas (28
		In D. J. and	SAMPLE CU	y received by Lab, if received by	VCY	VCY Contract T	GENCY 7 Day TAT	5 Day TAT	'ime (Business days)					S M	0/2	808	508	507	306 (0) 6" bys,	Field ID / Point of Collection		ada lanata ch		(432) 704-5	, Building 1, Unit #103, Midland, TX		c Permian Office	ng Information		02-0300)	d since 1990 1-240-4200)
Date Time:	_	Date Time:	STODY MUST BE DOCUM	y 5:00 pm		AT				_				VV					6 " 06/71	Sample Depth Dat	Colle		PO Nui	5178 XTO Er	(79705	Project	Project			Midla	San A
Received By	3	Received By	IENTED BELOW EACH		TRRP	Level	Level	Level						11:20	11:00	10:50	10:35	10:15	18 10:00	e Time Mi	ction		nber:	nergy - Kyle Littrell	N/M	Location:	Name/Number:	Project I		nd, Texas (432-704	ntonio, Texas (21
		top Elh	TIME SAMPLES CHA		Checklist	3 (CLP Forms)	III Std QC+ Forms	II Std QC	Data Deliverable II					-	SI	1 5	1	1	1	atrix bottles HCI	7				JRP - 24		polden & Fed	Information		4-5251) www.xenco.com	0-509-3334)
Custody \$	4	Relinquis	MGE POSSESSION, INC			UST / RG	TRRP Le	Level IV	Iformation											Acetate HNO3 H2SO4 NaOH	lumber of preserved				39		eral #1				
beal #		hed By:	LUDING COURIER DEL			-411	vel IV	(Full Data Pkg /raw d						XX	XX	XX	XX	XX	XX	NaHSO4 MEOH NONE BTEX	bottles	302	21	(only	BTE	TX)			Xenco (Phoen
Preserved where a		Date Time:	IVERY	7				lata)						XX	XX	XX	XX	XX	XX	TPH chlor	(M ide	RC	2, 6 ()	200.0))	8	015		Analytical	Quote #	iix, Arizona (480-3
pplicable	4	5.30 2 Réceivee	Deceiver	ED-EX / UPS: Track					Notes:																				Information	Xenco Job #	55-0900)
On Ice Coole		MAN	And .	ting #								-		N.S.	NN	SW-	N~	E 71	E TI											560	
er Temp. Therm		A G							1	/				- WTB	-WTB	midTB	midTB	B-N	3-5	Field Comn	A = Aiı	WWW= V	O = Oi	ST = SI	P = Pro	GW =G	S = Soi		Matrix	(HC	
o. Corr. Factor		DI BILB	21-2																	nents		Vaste Water	lpe	udge cean/Sea Water	orinking Water	round Water	iter I/Sed/Solid		Codes		

Received/by (OCD:11/3/2020 3:12:49 PM



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/08/2018 10:09:00 AM Temperature Measuring device used : R8 Work Order #: 588640 Sample Receipt Checklist Comments #1 *Tomporature of coolor(c)? 12

	7.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Checklist reviewed by: Jessica Krame

Date: 06/08/2018

Jessica Kramer

Date: 06/08/2018

Analytical Report 589277

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal 1

15-JUN-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



15-JUN-18

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

Reference: XENCO Report No(s): 589277 Golden 8 Federal 1 Project Address: NM 2RP-3612

Adrian Baker:

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) 589277. 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. 589277 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,

fession knamer

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

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



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Sample Cross Reference 589277

LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01 A	S	06-13-18 09:50	7 ft	589277-001
BH01 B	S	06-13-18 10:30	10.5 ft	589277-002
BH01 C	S	06-13-18 11:15	12.5 ft	589277-003

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CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Golden 8 Federal 1

Project ID: Work Order Number(s): 589277 Report Date:15-JUN-18Date Received:06/14/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3053586 TPH by SW8015 Mod Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by reanalysis. Samples affected are: 589277-001 S.

Batch: LBA-3053603 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.


Project Id: Contact: A Project Location: N

Adrian Baker NM 2RP-3612

Certificate of Analysis Summary 589277

LT Environmental, Inc., Arvada, CO

Project Name: Golden 8 Federal 1



Date Received in Lab:Thu Jun-14-18 02:00 pmReport Date:15-JUN-18Project Manager:Jessica Kramer

	Lab Id:	589277-0	001	589277-0	002	589277-0	003		
Analysis Paguastad	Field Id:	BH01	A	BH01	В	BH01	C		
Analysis Kequesiea	Depth:	7- ft		10.5- f	ť	12.5- ft			
	Matrix:	SOIL	,	SOIL	,	SOIL			
	Sampled:	Jun-13-18	09:50	Jun-13-18	10:30	Jun-13-18	11:15		
BTEX by EPA 8021B	Extracted:	Jun-14-18	16:00	Jun-14-18	16:00	Jun-14-18	6:00		
	Analyzed:	Jun-14-18	19:08	Jun-14-18	19:26	Jun-14-18	9:44		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Toluene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Ethylbenzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
m,p-Xylenes		< 0.00402	0.00402	< 0.00398	0.00398	< 0.00400	0.00400		
o-Xylene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Total Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Total BTEX		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Inorganic Anions by EPA 300	Extracted:	Jun-14-18	14:30	Jun-14-18	14:30	Jun-14-18	4:30		
	Analyzed:	Jun-14-18	18:51	Jun-14-18	18:56	Jun-14-18	9:02		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		1290	24.6	212	4.94	107	5.00		
TPH by SW8015 Mod	Extracted:	Jun-15-18	12:00	Jun-15-18	12:00	Jun-15-18	2:00		
	Analyzed:	Jun-15-18	14:06	Jun-15-18	15:06	Jun-15-18	5:27		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)		331	15.0	126	15.0	258	15.0		
Oil Range Hydrocarbons (ORO)		24.0	15.0	<15.0	15.0	17.1	15.0		
Total TPH		355	15.0	126	15.0	275	15.0		

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

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Jessica Kramer Project Assistant

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 A	Id: BH01 A			Matrix: Soil			Date Received:06.14.18 14.00			
Lab Sample Id: 589277-001		Date Collected: 06.13.18 09.50			Sample Depth:7 ft					
Analytical Method: Inorganic Anio	ons by EPA 300				P	Prep Method: E30	0P			
Tech: SCM					%	6 Moisture:				
Analyst: SCM		Date Prep	: 06.14	.18 14.30	E	Basis: We	t Weight			
Seq Number: 3053433							U			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	1290	24.6		mg/kg	06.14.18 18.51		5		
Analytical Method: TPH by SW80 Tech: ARM Analyst: JUM	15 Mod	Date Prep	: 06.15	.18 12.00	P % E	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight			
Seq Number: 3053580	Cas Number	Result	DI		Unita	Analysis Data	Flog	Dil		
		Kesuit			Units	Analysis Date	riag			
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.15.18 14.06	U	1		
Diesel Range Organics (DRO)	C10C28DRO	331	15.0		mg/kg	06.15.18 14.06		1		
Oil Range Hydrocarbons (ORO)	PHCG2835	24.0	15.0		mg/kg	06.15.18 14.06		1		
Total TPH	PHC635	355	15.0		mg/kg	06.15.18 14.06		1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	83	%	70-135	06.15.18 14.06				

88

%

70-135

06.15.18 14.06

84-15-1

o-Terphenyl

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id:BH01 ALab Sample Id:589277-001	Matrix: Date Collected	Soil : 06.13.18 09.50	Date Received Sample Depth	l:06.14.18 14.00 :7 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3053603	Date Prep:	06.14.18 16.00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.14.18 19.08	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	06.14.18 19.08		
1,4-Difluorobenzene		540-36-3	108	%	70-130	06.14.18 19.08		

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 B Lab Sample Id: 589277-002		Matrix: Date Collec	Soil cted: 06.13.18 10.30		Date Received:06 Sample Depth:10	.14.18 14.00 .5 ft)
Analytical Method: Inorganic Anio Tech: SCM Analyst: SCM	ns by EPA 300	Date Prep:	06.14.18 14.30		Prep Method: E3 % Moisture: Basis: W	00P et Weight	
Seq Number: 3053433 Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	212	4.94	mg/kg	06.14.18 18.56		1
Analytical Method: TPH by SW801	5 Mod				Prep Method: TX	K1005P	
Tech: ARM					% Moisture:		
Analyst: JUM Seq Number: 3053586		Date Prep:	06.15.18 12.00		Basis: W	et Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.15.18 15.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	126	15.0	mg/kg	06.15.18 15.06		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.15.18 15.06	U	1
Total TPH	PHC635	126	15.0	mg/kg	06.15.18 15.06		1

		%				
Surrogate	Cas Number	Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	06.15.18 15.06	
o-Terphenyl	84-15-1	79	%	70-135	06.15.18 15.06	

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

ed: 06.13.18 10.30	Sample Depth	10.5 ft
	Prep Method: % Moisture:	SW5030B
06.14.18 16.00	Basis:	Wet Weight
t	ted: 06.13.18 10.30 06.14.18 16.00	ted: 06.13.18 10.30 Sample Depth Prep Method: % Moisture: 06.14.18 16.00 Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.14.18 19.26	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	70-130	06.14.18 19.26		
1,4-Difluorobenzene		540-36-3	101	%	70-130	06.14.18 19.26		

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 C		Matrix:	Soil		Ι	Date Received:06.1	14.18 14.00)
Lab Sample Id: 589277-003		Date Colle	Date Collected: 06.13.18 11.15			Sample Depth: 12.5	5 ft	
Analytical Method: Inorganic Anio	ns by EPA 300				F	Prep Method: E30	0P	
Tech: SCM					9	% Moisture:		
Analyst: SCM		Date Pren	06.14.	18 14.30	E	Basis: We	t Weight	
Seq Number: 3053433		Duiterrop					0	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	107	5.00		mg/kg	06.14.18 19.02		1
Analytical Method:TPH by SW801Tech:ARMAnalyst:JUMSeq Number:3053586	15 Mod	Date Prep	. 06.15.	18 12.00	F 9 F	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.15.18 15.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	258	15.0		mg/kg	06.15.18 15.27		1
Oil Range Hydrocarbons (ORO)	PHCG2835	17.1	15.0		mg/kg	06.15.18 15.27		1
Total TPH	PHC635	275	15.0		mg/kg	06.15.18 15.27		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	06.15.18 15.27		

84-15-1

%

70-135

06.15.18 15.27

99

1-Chlorooctane o-Terphenyl

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id:BH01 CLab Sample Id:589277-003	Matrix: Date Collected	Soil : 06.13.18 11.15	Date Received Sample Depth	:06.14.18 14.00 :12.5 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ			Prep Method: % Moisture:	SW5030B
Analyst:ALJSeq Number:3053603	Date Prep:	06.14.18 16.00	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	06.14.18 19.44	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	06.14.18 19.44		
1,4-Difluorobenzene		540-36-3	103	%	70-130	06.14.18 19.44		

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Flagging Criteria



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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.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Cli	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	oratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Golden 8 Federal 1

Analytical Method:	Inorganic Anions by	y EPA 300						Pr	ep Metho	od: E30	0P	
Seq Number:	3053433			Matrix:	Solid				Date Pre	ep: 06.1	4.18	
MB Sample Id:	7656636-1-BLK		LCS Sat	nple Id:	7656636-	1-BKS		LCS	D Sample	Id: 765	6636-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Chloride	< 5.00	250	257	103	257	103	90-110	0	20	mg/kg	06.14.18 12:29	

Analytical Method:	Inorganic Anions by EPA 300 Prep Method:							od: E30	0P			
Seq Number:	3053433			Matrix:	Soil				Date Pre	ep: 06.1	4.18	
Parent Sample Id:	588898-002		MS Sa	mple Id:	588898-0	02 S		MS	D Sample	e Id: 588	898-002 SD	
Parameter	Paren Resul	t Spike t Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Chloride	32	21 250	558	95	559	95	90-110	0	20	mg/kg	06.14.18 17:57	

Analytical Method:	Inorganic Anio	ons by	EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3053433				Matrix:	Soil				Date Pre	ep: 06.1	4.18	
Parent Sample Id:	589043-001			MS Sai	nple Id:	589043-0	01 S		MSI	O Sample	Id: 5890	043-001 SD	
Parameter	Par Re	rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Chloride		7.35	247	270	106	264	104	90-110	2	20	mg/kg	06.14.18 12:46	

Analytical Method:	TPH by S	W8015 M	od						Р	rep Metho	od: TX1	005P	
Seq Number:	3053586				Matrix:	Solid				Date Pre	ep: 06.1	5.18	
MB Sample Id:	7656745-1	-BLK		LCS Sat	mple Id:	7656745-	1-BKS		LCS	D Sample	d: 765	6745-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	837	84	847	85	70-135	1	20	mg/kg	06.15.18 13:26	
Diesel Range Organics ((DRO)	<15.0	1000	827	83	854	85	70-135	3	20	mg/kg	06.15.18 13:26	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSE %Rec) LCSE 2 Flag) Li	imits	Units	Analysis Date	
1-Chlorooctane		80		1	.07		109		70)-135	%	06.15.18 13:26	
o-Terphenyl		84			86		83		70)-135	%	06.15.18 13:26	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory Control Sample \\ A = Parent Result \\ C = MS/LCS Result \\ E = MSD/LCSD Result$

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

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Golden 8 Federal 1

Analytical Method:	TPH by S	IPH by SW8015 Mod Prep Method: TX1005P 2055596 D + D = 061519									005P		
Seq Number:	3053586				Matrix:	Soil				Date Pr	ep: 06.1	5.18	
Parent Sample Id:	589277-00)1		MS Sat	mple Id:	589277-0	01 S		MS	SD Sample	e Id: 589	277-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	999	820	82	871	87	70-135	6	20	mg/kg	06.15.18 14:26	
Diesel Range Organics (DRO)	331	999	1140	81	1160	83	70-135	2	20	mg/kg	06.15.18 14:26	
Surrogate				N %	1S Rec	MS Flag	MSD %Rec	MSD Flag	L	imits	Units	Analysis Date	
1-Chlorooctane				1	09		102		7	0-135	%	06.15.18 14:26	
o-Terphenyl				-	54	**	90		7	0-135	%	06.15.18 14:26	

BTEX by EPA 8021	В						Р	rep Meth	od: SW	5030B	
3053603			Matrix:	Solid				Date Pr	ep: 06.1	4.18	
7656667-1-BLK		LCS Sat	mple Id:	7656667-	1-BKS		LCS	D Sample	e Id: 765	6667-1-BSD	
MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
< 0.00200	0.100	0.0941	94	0.0871	87	70-130	8	35	mg/kg	06.14.18 17:19	
< 0.00200	0.100	0.101	101	0.0930	93	70-130	8	35	mg/kg	06.14.18 17:19	
< 0.00200	0.100	0.0993	99	0.0925	93	70-130	7	35	mg/kg	06.14.18 17:19	
< 0.00401	0.200	0.208	104	0.194	97	70-130	7	35	mg/kg	06.14.18 17:19	
< 0.00200	0.100	0.106	106	0.0910	91	70-130	15	35	mg/kg	06.14.18 17:19	
MB %Rec	MB Flag	L/ %]	CS Rec	LCS Flag	LCSE %Rec) LCSE c Flag) L	imits	Units	Analysis Date	
98		ç	92		99		70	0-130	%	06.14.18 17:19	
89		1	00		122		70	0-130	%	06.14.18 17:19	
	BTEX by EPA 8021 3053603 7656667-1-BLK MB Result <0.00200 <0.00200 <0.00200 <0.00401 <0.00200 MB % Rec 98 89	MB Spike 7656667-1-BLK MB Spike <	BTEX by EPA 8021B 3053603 CCS Sat 7656667-1-BLK LCS Sat MB Spike LCS <0.00200	BTEX by EPA 8021B 3053603 Katrix: 7656667-1-BLK LCS S→ple Id: MB Spike LCS LCS 0.00200 0.100 0.0941 94 <0.00200	BTEX by EPA 8021B 3053603 Matrix: Solid 7656667-1-BLK LCS Sample Id: 7656667- MB Spike LCS LCS LCSD Result CSD <0.00200	BTEX by EPA 8021B 3053603 Matrix: Solid 7656667-1-BLK LCS Sample Id: 7656667-1-BKS MB Spike LCS LCS LCSD LCSD LCSD MCSD MCSD <0.00200	BTEX by EPA 8021B 3053603 Matrix: Solid 7656667-1-BLK LCS Sample Id: 7656667-1-BKS MB Result Spike Amount LCS Result LCS %Rec LCSD %Result LCSD %Rec LCSD %Rec LCSD %Result LCSD %Rec LCSD %Rec <td>BTEX by EPA 8021B P 3053603 Matrix: Solid 7656667-1-BLK LCS Sample Id: 7656667-1-BKS LCS MB Spike LCS LCS LCSD LCSD LCSD LCSD LCSD LCSD LCSD Matrix: Solid Matrix: Solid Matrix: Solid Solid</td> <td>BTEX by EPA 8021B Prep Methods 3053603 Matrix: Solid Date Pr 7656667-1-BLK LCS Sample Id: 7656667-1-BKS LCSS Sample Id: 76130 8 35 <0.00200</td> 0.100 0.0941 94 0.0871 87 70-130 8 35 <0.00200	BTEX by EPA 8021B P 3053603 Matrix: Solid 7656667-1-BLK LCS Sample Id: 7656667-1-BKS LCS MB Spike LCS LCS LCSD LCSD LCSD LCSD LCSD LCSD LCSD Matrix: Solid Matrix: Solid Matrix: Solid Solid	BTEX by EPA 8021B Prep Methods 3053603 Matrix: Solid Date Pr 7656667-1-BLK LCS Sample Id: 7656667-1-BKS LCSS Sample Id: 76130 8 35 <0.00200	Prep A 8021B Prep Method: SW: SU: SW: SU: <th colspan="</td> <td>BTEX by EPA 8021B Prep Method: SW5030B 3053603 Matrix: Solid Date Prep: $06.14.18$ 7656667-1-BLK LCS Sample I: $7656667-1$-BKS LCSD Sample I: $7656667-1$-BKS <math>CSD Sample I: $7656667-1$-BKS <math>CSD Sample I: $7656667-1$-BKS MB Spike LCS LCS <math>Result $Result %Result %Res$</math></math></math></td>	BTEX by EPA 8021B Prep Method: SW5030B 3053603 Matrix: Solid Date Prep: $06.14.18$ 7656667-1-BLK LCS Sample I: $7656667-1$ -BKS LCSD Sample I: $7656667-1$ -BKS $CSD Sample I: 7656667-1-BKS CSD Sample I: 7656667-1-BKS MB Spike LCS LCS Result Result %Result %Res$

Analytical Method:	BTEX by EPA 802	1B							Prep Method: SW5030B					
Seq Number:	3053603			Matrix:	Soil				Date Pr	ep: 06.1	14.18			
Parent Sample Id:	588822-002		MS Sar	nple Id:	588822-0	02 S		MS	SD Sample	e Id: 588	822-002 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag		
Benzene	< 0.00201	0.100	0.0578	58	0.0661	65	70-130	13	35	mg/kg	06.14.18 17:55	Х		
Toluene	< 0.00201	0.100	0.0592	59	0.0663	66	70-130	11	35	mg/kg	06.14.18 17:55	Х		
Ethylbenzene	< 0.00201	0.100	0.0519	52	0.0592	59	70-130	13	35	mg/kg	06.14.18 17:55	Х		
m,p-Xylenes	< 0.00402	0.201	0.107	53	0.120	60	70-130	11	35	mg/kg	06.14.18 17:55	Х		
o-Xylene	< 0.00201	0.100	0.0520	52	0.0572	57	70-130	10	35	mg/kg	06.14.18 17:55	Х		
Surrogate			M %I	IS Rec	MS Flag	MSD %Rec	MSD Flag	L	imits	Units	Analysis Date			
1,4-Difluorobenzene			1	06		97		7	0-130	%	06.14.18 17:55			
4-Bromofluorobenzene			1	06		123		7	0-130	%	06.14.18 17:55			

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory Control Sample \\ A = Parent Result \\ C = MS/LCS Result \\ E = MSD/LCSD Result$

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

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CHAIN OF CUSTODY Page 1 of 1

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Client / Reporting Information	VVVVV. XENCO. COM Xenco Quote # Project Information Project Information
Company Name / Branch: 1 T Environmental Inc Permian Office	Project Name/Number: 12 1 & tala 1
Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 7970	NM ZRD-3612 1900
Email: Phone No: Abaker@LTEnv.com (432) 704-5178 Protect Contact:	Involce To: XTO Energy - Kyle Littrell 1 (0, 0) (300,
Adrian Baker	PO Number:
samplers s vame Grade Canadolic fr	Collection Number of preserved bottles
No. Field ID / Point of Collection	Sample Depth Date Time Marrix bottles ICI IacOH/Zn Iccetate INO3 I2SO4 IacOH Iariso4 IEOH IONE BTEX Chlor
1 BHOLA	7' adiylist 9:50 S 1 XXX
2 BHORE	10.51 1 10:30 S 1 XXXX
3 <i>BHOIC</i>	$12.5' \forall 11:15 S 1 X X X X$
05 4	
7	
8	
· · · · · · · · · · · · · · · · · · ·	
Turnaround Time (Business days)	Data Deliverable Information
Same Day TAT 5 Day TAT	Level II Std QC Level IV (Full Data Pkg /raw data)
Next Day EMERGENCY	Level III Std QC+ Forms TRRP Level IV
2 Day EMERGENCY Contract TAT	Level 3 (CLP Forms) UST / RG -411
3 Day EMERGENCY	TRRP Checklist
TAT Starts Day received by Lab, if received by 5:00) pm
Relinquished by Sampler	MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY
1 Jeff Jeff Jeff Jeff Jeff Jeff Jeff Jef	15/15/18 13: An Invited of Ellipston & Annual Will vor 10/13/11 Date Time: Received By: Relinquished By: Date Time: 2744 8 14:00 3 Schull and a
Relinquished by:	Date Time: / Received By: / Custody Seal # Preserved where

Received/by OCD:11/3/2020 3:12:49 PM

Released to Imaging: 7/23/2021 11:50:21 AM

Final 1.000

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ABORATORIES

Dallas Texas (214-902-0300) Stafford, Texas (281-240-4200) Setting the Standard since 1990

Midland, Texas (432-704-5251) San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/14/2018 02:00:00 PM Temperature Measuring device used : R8 Work Order #: 589277 Sample Receipt Checklist Comments

#1 *Temperature of cooler(s)?	3.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Checklist reviewed by: Jessica Krame

Date: 06/14/2018

Jessica Kramer

Date: 06/14/2018

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

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	3173
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS		
Created By	Condition	Condition Date
bbillings	Deferral for nJMW1333053660 approved until P&A or major modification of site	7/23/2021

CONDITIONS

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Action 3173

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