District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

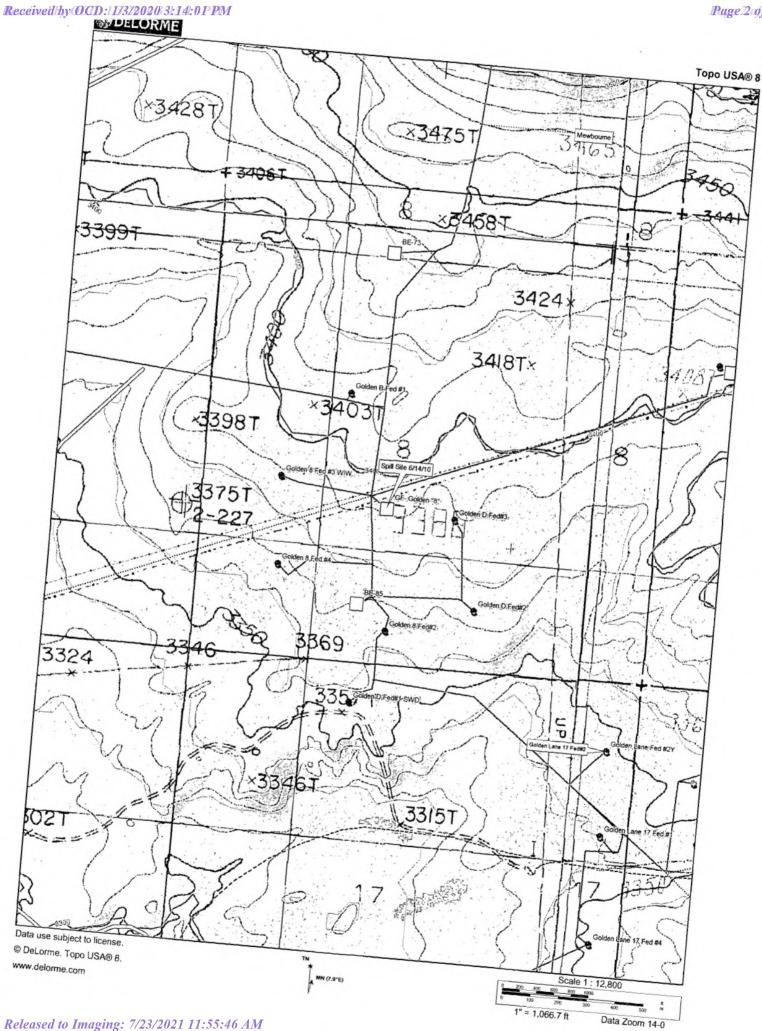
State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

JUN **2 2** 2010submic 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

30-015	- 2/192	/	Pal	ease Notific	otio-	and Ca	A Authoriting	ation			TO THE PERSON OF	
			Rei	ease Notific	atioi					10		r' 1 D
MW ID.				2/1722		OPERAT			✓ Initial	al Report		Final Re
Name of Company BOPCO, L.P. 260 737 Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220				Contact Ton		20						
		8 Federal I				Facility Typ	No. 432-556-87	30				
			Sattery #			racinty Typ	De E&F			-		
Surface Ow	ner Federa	.1		Mineral O	wner F	ederal			Lease N	Vo.		
				LOCA	TION	OF REI	FACE					
Unit Letter	Section	Toumship	Danas	Feet from the		South Line	Feet from the	Engt/N	Vest Line	Country		
K	8	Township 21S	Range 29E	reet from the	North/	South Line	reet from the	East/ W	vest Line	County Eddy		
.,										Judy		
			I	Latitude_N 32.49	_	Longitu		47				
Type of Relea	ase: Crude o	oil		IVAI	UKE		Release: 90 Bbls	of I	Volume I	Recovered:	80 bbls o	of crude (
. The or Kelei	and, Crude (Crude oil	Acteuse. 70 Dois		v Granie i	covered.	GO DOIS C	or crude (
Source of Re	lease: Drain	line connect	ion on the	back of a 500 bbl.	tank		Hour of Occurrence	e		Hour of Di	scovery	
						Unknown			6/14/10	8:56 a.m.		
Was Immedia	ate Notice C		Voc -	No □ Not Re	quirad	If YES, To	o Whom? 10CD on call ope	rator				
			res L	I NO LI NOI RE	quired							
By Whom? Tony Savoie							lour 6/14/10 9:24					
		ned/										
Was a Water	course Reac		Yes 🗵	No		II TES, VC	olume Impacting	ine wate	ercourse.			
Was a Watero	irse was Imp	pacted, Descr	ibe Fully.	*								
Describe Cau bil in the tank Describe Arcaround the tank Inside the cor	use of Proble c was remov a Affected a nks. The fre ntainment are	pacted, Description and Reme ved, the tank ved and Cleanup Are standing flures will be saithe crude oil	dial Actio was cleane Action Tal uids were mpled to d spill will	n Taken.* The dra ed, inspected and ro ken.*The released removed. The heav letermine vertical ef follow the NMOCI	fluid aff vily satu extent; a D guide	connection on by replacing fected an area trated soil is in remediation dines for leak	n the back of the t the connections a a of approximatel in the process of b plan along with a as and spills.	ank faile and coati y 2,000 s being ren a new co	d due to in ng the tank sq. ft inside noved and ntainment	e the earthe placed on p plan will be	n contair plastic. T e submitt	ment he area ed.
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Describe Caubil in the tank Describe Arcaround the tank Describe Arcaround the tank Inside the cor The Site reme I hereby certifegulations all bublic health should their cor frederal, state, Signature: Printed Name	ase of Proble was removed a Affected a nks. The free ntainment are ediation for fy that the influence or the enviroperations had or local law as: Tony Save Mgmt. & Re	pacted, Description and Remerced, the tank of the standing flures will be san the crude oil information grare required to comment. The ave failed to addition, NMC was and/or regular.	dial Action Was cleaned Action Table and	n Taken.* The drawd, inspected and received. The released removed. The heaviletermine vertical effollow the NMOCI is true and complete ind/or file certain rece of a C-141 report investigate and received.	fluid affivily saturextent; a D guide lete to the leease nort by the emediator report defends a control of the lete to the emediator report defends a control of the lete to t	fected an area trated soil is in a remediation clines for leak the best of my otifications are e NMOCD me e contaminations not relieve	a of approximately in the process of to plan along with a cand spills. I knowledge and und perform correct parked as "Final Rion that pose a three the operator of OIL CON District Supervis Signed By	ank faile and coating y 2,000 so being ren a new cool anderstartive active acti	d due to ing the tank sq. ft inside noved and ntainment ons for rel oes not rel ound wate bility for c	the the earther placed on	n contair blastic. The submitted MOCD run h may en erator of vater, hur with any	ment he area ed. les and danger liability nan healt



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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 emai	il Kyle_Lit	trell@xtoenergy.c	om		Incident #	# (assigned by OCD)		
Contact mail	ing address	522 W. Mermod	, Carlsbad, NM 8	38220				
			Location	n of R	Release S	Source		
Latitude 32.4	91438				Longitude	-104.008147		
			(NAD 83 in a	lecimal de	grees to 5 deci	imal places)		
Site Name C	Golden 8 Fed	leral Battery #1			Site Type	Exploration and Production		
Date Release	Discovered	06/14/2010			API# (if ap)	pplicable) 30-015-26931		
Unit Letter	Section	Township	Range		Cour	netr.		
K	8	21S	29E	Edd		inty		
K	O	215	2)L	Laa	<i>,</i>			
Surface Owner	r. State	⊠ Federal □ Ti	ribal 🏻 Private	(Name:	BLM)		
			<u> </u>					
			Nature an	id Vo	lume of 1	Release		
				ch calculat	tions or specific	ic justification for the volumes provided below)		
Crude Oil		Volume Release	ed (bbls) 90			Volume Recovered (bbls) 80		
Produced	Water	Volume Release	ed (bbls)			Volume Recovered (bbls)		
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	chloride	e in the	☐ Yes ☐ No		
Condensa	te	Volume Release				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 Rele	ease							
site to recove impacted an a in August of	r the free prarea that had 2011, refere	oduct. The spill in I been cleaned up	npacted approxinas far as practica te d2/6/2011. Th	nately 90	00 sq. ft. of tarea around	ed out of the vessel, a vacuum truck was dispatched to the the tank battery earthen containment area. The spill the vessels and lines during a remediation at the facility dressed, cleaned up as required, and a new closure report		

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

Was this a major	If YES, for what reason(s) does the responsible Volume of release is greater than 25 bbls	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Volume of release is greater than 23 dois	•
⊠ Yes □ No		
	otice given to the OCD? By whom? To wacted the on-call NMOCD operator (Randy	hom? When and by what means (phone, email, etc)? on 06/14/2010 at 9:24 am.
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	- ly unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	ve been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed ar	nd managed appropriately.
If all the actions described N/A	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investiga	required to report and/or file certain release not ment. The acceptance of a C-141 report by the ate and remediate contamination that pose a thr	best of my knowledge and understand that pursuant to OCD rules and iffications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:Ky	le Littrell	Title:SH&E Supervisor
Signature:		Date:12/31/2019
email:Kyle_Littrel	1@xtoenergy.com	Telephone:432-221-7331
OCD Only		
Received by:		Date:

State of New Mexico Oil Conservation Division

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

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody

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

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

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	difications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
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:

State of New Mexico Oil Conservation Division

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

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation poin □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29. □ Proposed schedule for remediation (note if remediation plan tin 	12(C)(4) NMAC
<u>Deferral Requests Only</u> : 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.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
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	Approval Denied Deferral Approved
Signature:	Date:

Form C-141

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

Revised October 10, 2003

1220 South St. Francis Dr. District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 side of form Santa Fe, NM 87505 30-015-26931 **Release Notification and Corrective Action OPERATOR Final Report** Contact Tony Savoie Name of Company BOPCO, L.P. 260737 Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 432-556-8730 Facility Type E&P Facility Name: Golden 8 Federal Battery #1 Surface Owner Federal Mineral Owner Federal Lease No. LOCATION OF RELEASE North/South Line Feet from the East/West Line Unit Letter Section Township Range Feet from the County Eddy K 8 **21S** 29F.

Longitude W 104.008223 Latitude_N 32.491352 NATURE OF RELEASE Volume Recovered: 290 Volume of Release: 310 Bbls Type of Release: Crude Oil . Crude oil Date and Hour of Occurrence Date and Hour of Discovery Source of Release: 500 bbl tank overflow 2/16/11 hour not known 2/16/11 10:00 a.m. If YES, To Whom? NMOCD emergency reporting. Left message with details. Was Immediate Notice Given? By Whom? Tony Savoie Date and Hour 2/16/11 1:30 p.m. RECEIVED Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No MAR 02 2011 If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* A 500 bbl. Oil product tank overflowed due to a heater-treater malfunction. The heater-treater was repaired and put back in service. Describe Area Affected and Cleanup Action Taken.*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. The area outside the containment had been affected by a previous flow line spill reported to the NMOCD on 10/6/10. 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. The area inside the containment was covered with soil to absorb small areas of free product. The Site remediation for the crude oil spill will follow the NMOCD guidelines for leaks and spills. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Tony Savoie Title: Waste Mgmt.& Remediation Specialist Approval Date: **Expiration Date:** E-mail Address: TASavoie@BassPet.com Conditions of Approval: Attached Remediation per OCD Rules & Phone:432-556-8730 Date: 3/3/11 Guidelines. SUBMIT REMEDIATION 2RP. 633 * Attach Additional Sheets If Necessary PROPOSAL NOT LATER THAN:

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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 ema	Contact email Kyle_Littrell@xtoenergy.com					(assigned by OCD)			
Contact mail	ing address	522 W. Mermod	, Carlsbad, NM 8	88220					
			Location	n of R	elease So	ource			
Latitude 32.491352					Longitude - grees to 5 decim	-104.008223			
Site Name C	Golden 8 Fed	leral Battery #1			Site Type	Exploration and Production			
Date Release	Discovered	02/16/2011			API# (if app	pplicable) 30-015-26931			
Unit Letter	Section	Township	Range		Coun	ntv			
K	8	21S	29E	Eddy					
			Nature an	d Vol	ume of I	Release c justification for the volumes provided below)			
Crude Oi		Volume Release		ar carculati	ons or specific	Volume Recovered (bbls) 290			
Produced	Water	Volume Release	ed (bbls)			Volume Recovered (bbls)			
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	chloride	in the	☐ Yes ☐ No			
Condensa	ite	Volume Release				Volume Recovered (bbls)			
Natural G	las	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units			de units)	s) Volume/Weight Recovered (provide units)					
Cause of Rel	ease								
inside the ear measuring ap reported to th	then tank co proximately ne NMOCD	ontainment measur 400 sq. ft. was af	ring approximated fected. The area ne oil saturated so	ly 14,100 outside t oil outsid	O sq. ft. and a he containm le the contain	reater was repaired and put back into service. An area an area of pasture land outside the containment ment had been affected by a previous flow line spill innment was removed by Basin Env. Using a hydro-vac. t.			

Incident ID	
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Application ID	

Was this a major		nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Release volume was greater than 25 bbls	
⊠ Yes □ No		
	otice given to the OCD? By whom? To we ded the NMOCD on 2/16/2011 via telephore.	hom? When and by what means (phone, email, etc)? le (NMOCD emergency reporting).
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	- ly unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed ar	nd managed appropriately.
If all the actions described N/A	d above have <u>not</u> been undertaken, explain	why:
D 10 15 20 0 D (4) NM	71	
has begun, please attach	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investiga	required to report and/or file certain release not ment. The acceptance of a C-141 report by the ate and remediate contamination that pose a thr	best of my knowledge and understand that pursuant to OCD rules and iffications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:Ky	le Littrell	Title:SH&E Supervisor
Signature:		Date:12/31/2019
email:Kyle_Littrel	1@xtoenergy.com	Telephone:432-221-7331
OCD Only		
Received by:		Date:

State of New Mexico Oil Conservation Division

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

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:Kyle Littrell	Title:SH&E Supervisor					
Signature:	Date:12/31/2019					
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331					
OCD Only						
Received by:	Date:					

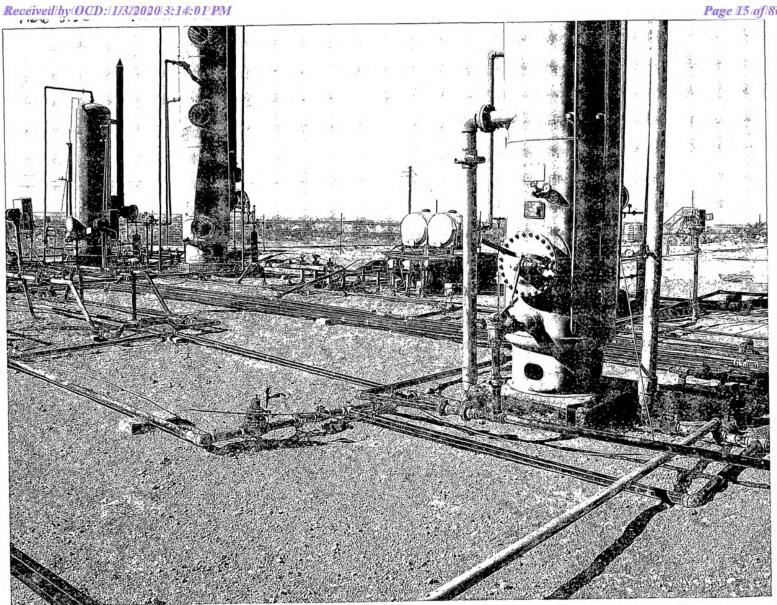
State of New Mexico Oil Conservation Division

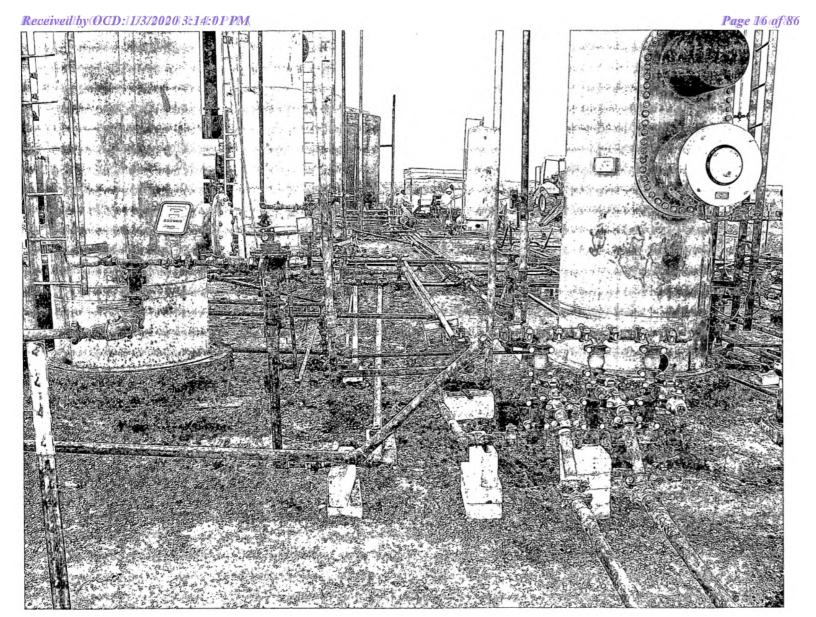
Incident ID	
District RP	2RP-0633
Facility ID	
Application ID	

Remediation Plan

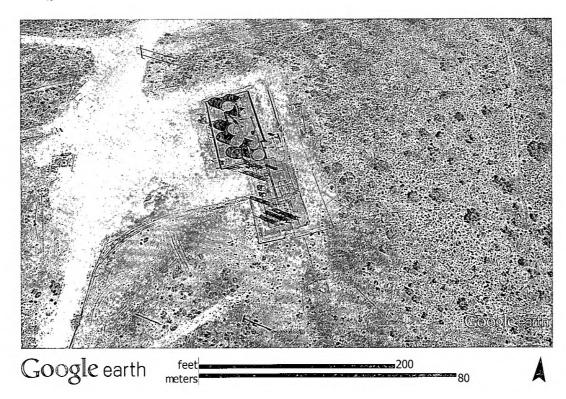
Remediation Plan Checklist: Each of the following items must be	e included in the plan.						
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications 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) 							
<u>Deferral Requests Only</u> : Each of the following items must be con	afirmed 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	n, the environment, or groundwater.						
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of						
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						
Signature:	Date:						

District I State of New Mexico 6625 N. French Dr., Hobbs, NM 88240 RECEIVED State of New Mexico District II Energy Minerals and Natural Resources						Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.						
NOV 2 6 2013 Oil Conservation Division 1000 Rio Brazos Road, Aztec, NM 87410 Oil Conservation Division District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505												
20 S. St. Flan	(a re, Nivi o 190:					orrective A	ction				
Tul	1222	20576		ase monn	catioi			_	7 1-1-1	al Damant		Cinal Dans
Jame of C		OPCO, L.P.		727		OPERA'			✓ Initi	al Report		Final Repo
				oad, N.M. 8822			No. 575-887-73	29				
				, the Well #1 v			e: Exploration		uction			
Surface Ow	ner: Feder	al		Mineral (Owner:	Federal			API N	o. 30-015-2	6931	
				LOC	ATIO	N OF RE	LEASE					
Unit Letter K	Section 8	Township 21S	Range 29E	Feet from the 1650		South Line	Feet from the 2180	East/We West	est Line	County Eddy		
				Latitude N 32	2.49114	l_Longitud	e_W 104.00777	5				
				NAT	TURE	OF REL	EASE					
ype of Rele	ease: Crude	oil and produ	ced water				Release: 6 Bbls nd 15 Bbls water		Volume water.	Recovered:	3 Bbls	oil and 2 Bbl
Source of Re	elease; Heat	er-treater fire	tube			Date and I	Hour of Occurren	ce:	Date and	Hour of Di		
Was Immedi	ate Notice (] Yes [No Not R	Required	If YES, To	Whom?					
By Whom?				•		Date and I						
Was a Water	rcourse Read		Yes 🗵	No		If YES, Volume Impacting the Watercourse.						
Describe Car	use of Probl	lem and Remeter-treater dev	edial Actio	n Taken.*	on was sv	vitched out o	f the vessel, a vac	cuum truck	was dis	patched to t	he site	to recover the
Describe Are The spill imporacticable in the re-address	ea Affected pacted appro n the area ar sed, cleaned ify that the	round the vess l up as require information g	sq. ft. of the sels and lined and a ne	he tank battery e es during a reme w closure report is true and com	diation a will be s	t the facility ubmitted incl he best of my	ea. The spill imp n August of 201 uding data from knowledge and	I, reference the previous understand	e spill re us spill. that pur	port dated 2	/16/11.	The area wi
bublic health should their or the enviro	or the envi operations h nment. In a	ronment. The	e acceptant adequately OCD accep	ce of a C-141 rep investigate and	ort by th remediat	e NMOCD m	arked as "Final I ion that pose a th re the operator of	Report" do reat to gro responsib	es not re and wate ility for	lieve the oper, surface we compliance	erator o ater, hu with an	f liability ıman health
		0	0				OIL CON	SERVA	TION	DIVISI	<u>UN</u>	
Signature:	e: Tony Say	1	w			Approved by	Environmental 5	Specialist:	d By	alike ,	Ken	F. /. mb
Printed Name: Tony Savoie Title: Waste Management and Remediation Specialist						Approval DalOV 2 6 2013 Expiration Date:						
Title: Waste	Managemei	nt and Remed	nation Spe	cianst	_				•			
		nt and Remed		Ciarist		Conditions o	f Approval:					
E-mail Addre	ess: tasavoi		Phone	432-556-8730	Re	Conditions o		Guidelines REMEDIA	5, & FION	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-2082
Facility ID	
Application ID	

Release Notification

Responsible Party

					T				
Responsible Party XTO Energy					OGRID 5380				
Contact Name Kyle Littrell					Contact Telephone 432-221-7331				
Contact emai	il Kyle_Lit	trell@xtoenergy.c	om		Incident	# (assigned by OCD)			
Contact mail	ing address	522 W. Mermod	, Carlsbad, NM 8	38220	1				
			Location	n of R	delease S	Source			
Latitude 32.4	91141		(NAD 83 in d	lecimal de	Longitude grees to 5 dec	: -104.007775			
Site Name C	Golden 8 Fed	leral Battery #1			Site Type	e Exploration and Production			
Date Release	Discovered	11/25/2013			API# (if ap	pplicable) 30-015-26931			
Unit Letter	Section	Township	Range		Cou	unty			
K	8	21S	29E	Eddy					
			Nature an	d Vol	lume of	Release			
Crude Oil		Volume Release			Volume Recovered (bbls) 3				
Normal Produced	Water	Volume Release	d (bbls) 15			Volume Recovered (bbls) 2			
		Is the concentrate produced water	ion of dissolved >10,000 mg/l?	chloride	le in the Yes No				
Condensa	nte	Volume Release				Volume Recovered (bbls)			
☐ Natural G	ias	Volume Release	d (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units			de units)	S) Volume/Weight Recovered (provide units)					
Cause of Rel	ease								
site to recove impacted an a in August of	er the free pr area that had 2011, refere	oduct. The spill in I been cleaned up	npacted approxing as far as practical te d2/6/2011. The	nately 90 1 in the a	00 sq. ft. of area around	ed out of the vessel, a vacuum truck was dispatched to the f the tank battery earthen containment area. The spill I the vessels and lines during a remediation at the facility ldressed, cleaned up as required, and a new closure report			

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

Was this a major	_	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
19.13.29.7(A) NMAC:		
☐ Yes ⊠ No		
	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
N/A		
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed ar	nd managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
N/A		
		remediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and iffications and perform corrective actions for releases which may endanger
public health or the environr	ment. The acceptance of a C-141 report by the	OCD does not relieve the operator of liability should their operations have
		eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name:Ky	le Littrell	Title:SH&E Supervisor
Signature:		Date:12/31/2019
email: Kvle Littrel	l@xtoenergy.com	Telephone:432-221-7331
		. —
OCD Only		
Received by:		Date:
J ·		

State of New Mexico Oil Conservation Division

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

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody

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

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

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the Gailed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD O I	
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

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

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e 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) 				
<u>Deferral Requests Only</u> : Each of the following items must be con	afirmed 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	n, the environment, or groundwater.			
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of			
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			
Signature:	Date:			

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011 Submic Cepy Enppropriate District Office in accordance with 19.15.29 NMAC.

AUG 1 3 2014

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division Santa Fe, NM 87505

1220 South St. Francis Dr.

			Rele	ease Notifica	atioi	n and Co	orrective .	Action	1			
DARIA	22/13	17719				OPERA'	ΓOR		Initi	al Report	☐ Final Repo	ort
Name of Company: BOPCO, L.P. 340737						Contact: Tony Savoie						
Address: 52	2 W. Men	mod, Suite 7	04 Carlst	ad, N.M. 88220		Telephone 1	No. 575-887-7	329				
Facility Nar P&A 2011	ne: Golder	n 8 Federal E	Battery #1	, the Well #1 wa	IS	Facility Typ	e: Exploration	and Pro	oduction			
Surface Ow	ner: Feder	al		Mineral O	wner:	Federal			API No	0. 30-015-26	931	
				LOCA	TIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County		
К	8	218	29E	1650	South		2180	West		Eddy		
				Latitude N 32.	49114	1_Longitud	e_W 104.0077	75				
				NAT	URE	OF REL						
		oil and produc				crude oil a	Release: 3 Bbl nd 38 Bbls wat	er	Bbls wat	er.	Bbl. oil and 17	
		aulic fitting on	the produ	ction header.		Date 8/12/	lour of Occurre 14 Time unkno			Hour of Disc Fime approxir	overy: Date nately 10:30 a.m.	
Was Immedia	ate Notice (Yes [No Not Re	quired	If YES, To NMOCD I	Whom? Emergency #10	4				
By Whom? 1	ony Savoie	2				Date and I	Hour: 8/12/14 at	12:10 p.i	m.	14		
Was a Water	course Read		V N	l No.		If YES, Vo	olume Impactin	g the Wat	ercourse.			
			Yes 🗵					IIO MI	CONS	ERVATION	<u> </u>	_
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	•					RTESIA DIS			
								Α	UG 13_	2014		
A Victaulic g	gasket failed		ction head	n Taken.* ler due to a normal ned to normal.	ly oper	n valve was sl	nut causing pres		uild up and RECEIV		gasket.	
The spill imp practicable in	acted appro the area ar spill referer	round the vess nce 2RP-2082.	0 sq. ft. of els and lin	ten.* The tank battery execution of the tank battery execution of the tank battery execution. The tank tank the tank tank tank tank tank tank tank tank	iation a	at the facility	in August of 20	11, refere	nce 2RP-63	33. And the sa	ime are as	
regulations a public health should their or or the enviro	II operators or the envi operations h nment. In a	are required to ronment. The nave failed to a	o report and acceptant adequately OCD accep	e is true and compled or file certain rece of a C-141 reportance o	lease not by the mediat	notifications a le NMOCD m le contaminat	nd perform con narked as "Final ion that pose a t	rective ac Report" hreat to g	tions for rel does not rel round wate	leases which r lieve the opera r, surface wat	may endanger ator of liability ter, human health	
							OIL CO	NSERV	VATION	DIVISIO	N	
Signature:	1 6up	Damo		***************************************					1,			
Printed Name	e: Tony Sav	voie				Approved by	Environmental Signed By	Specialis	to Brens	redese_	_	
Title: Waste	Manageme	nt and Remed	iation Spe	cialist		Approval Da	te: 8/14/10	+	Expiration	Date: NA		
E-mail Addre	ess: tasavoi	e@basspet.com	m			Conditions o	f Approval:			Attached	П	
Date:8/13/14				Phone: 432-556-8	730		ediation per es. SUBMIT			Attached		
		ets If Necess					POSAL NO LA			2RF	2 2A39	

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

			ICS	ponsible i di	·y			
Responsible Party XTO Energy				OGRID	OGRID 5380			
Contact Name Kyle Littrell				Contact '	Contact Telephone 432-221-7331			
Contact ema	il Kyle_Lit	trell@xtoenergy.c	com	Incident	# (assigned by OCD)			
Contact mail	ing address	522 W. Mermod	, Carlsbad, NM 8	38220				
			Location	n of Release S	Source			
Latitude 32.4	91141		(NAD 83 in a	Longitude lecimal degrees to 5 dec	: -104.007775 cimal places)			
Site Name C	Golden 8 Fed	deral Battery #1		Site Type	Exploration and Production			
Date Release	Discovered	08/12/2014		API# (if a	pplicable) 30-015-26931			
Unit Letter	Section	Township	Range	Col	unty			
K	8	21S	29E	Eddy				
	Materia	ıl(s) Released (Select a		nd Volume of	Release			
Crude Oi		Volume Release		on carcanations of specific	Volume Recovered (bbls) 1			
Produced	Water	Volume Release	ed (bbls) 27		Volume Recovered (bbls) 17			
Is the concentration of dissolved chloride produced water >10,000 mg/l?				chloride in the	☐ Yes ☐ No			
Condensa	nte	Volume Release	ed (bbls)		Volume Recovered (bbls)			
Natural Gas Volume Released (Mcf)			ed (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units			t Released (provid	de units)	s) Volume/Weight Recovered (provide units)			
Cause of Rel	ease							
gasket. The g earthen conta during a rem	gasket was re ninment area ediation at tl	eplaced and the va The spill impact he facility in Augu	alve was returned ed an area that hat ast of 2011, refere	to normal. The spind been cleaned up ence 2RP-0633 and	we was shut causing pressure to build up and blow out the ll impacted approximately 1500 sq. ft. of the tank battery as far as practical in the area around the vessels and lines I the same areas impacted by spill reference 2RP-2082.			

spills.

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

Was this a major		nsible party consider this a major release?	
release as defined by	Volume of release is greater than 25 bbls		
19.15.29.7(A) NMAC?			
⊠ Yes □ No			
If YES was immediate no	Lotice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?	
	acted the NMOCD emergency operator #10		
		•	
	Initial R	esponse	
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury	
The source of the rele	ease has been stopped.		
☐ The impacted area ha	s been secured to protect human health and	the environment.	
	_	dikes, absorbent pads, or other containment devices.	
	ecoverable materials have been removed ar	-	
	d above have <u>not</u> been undertaken, explain		
N/A	a above have <u>not</u> been undertaken, explain	wily.	
		remediation immediately after discovery of a release. If remediation	
		efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.	
		best of my knowledge and understand that pursuant to OCD rules and iffications and perform corrective actions for releases which may endanger	
public health or the environr	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.	Tue 141 report does not reneve the operation of	responsibility for compliance with any other redefal, state, or rocal laws	
Dainte d Names - IV-	J. T. (441)	Tid., CHOE Commission	
Printed Name:Ky	'le Littrell	Title:SH&E Supervisor	
Signature:		Date:12/31/2019	
email: Kyle Littrel	1@xtoenergy.com	Telephone:432-221-7331	
	<i>C.</i> ————————————————————————————————————		
OCD Only			
Paggivad by:		Datas	
Received by.		Date:	

State of New Mexico Oil Conservation Division

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

Site Assessment/Characterization

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

	1
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 Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:Kyle Littrell	Title:SH&E Supervisor	
Signature:	Date:12/31/2019	
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331	
OCD Only		
Received by:	Date:	

State of New Mexico Oil Conservation Division

Incident ID	nAB1422637219
District RP	2RP-2439
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) 				
<u>Deferral Requests Only</u> : Each of the following items must be conjugated	firmed 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.				
○ 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 Date:12/31/2019 email:Kyle_Littrell@xtoenergy.com Telephone:432-221-7331				
OCD Only				
Received by: Approved with Attached Conditions of A	Date: Approval			
Signature: Bradford Billings	Date: 07/23/2021			



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.





Bratcher, M. Page 2

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)



Bratcher, M. Page 3

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





Bratcher, M. Page 4

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.

Ashley L. Ager

Ashley L. Ager, P.G.

Sincerely,

LT ENVIRONMENTAL, INC.

Morrissey

Tacoma Morrissey Staff Geologist

Senior Geologist

cc: Kyle Littrell, XTO

United States Bureau of Land Management – New Mexico

Robert Hamlet, NMOCD Victoria Venegas, NMOCD





Bratcher, M. Page 5

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations

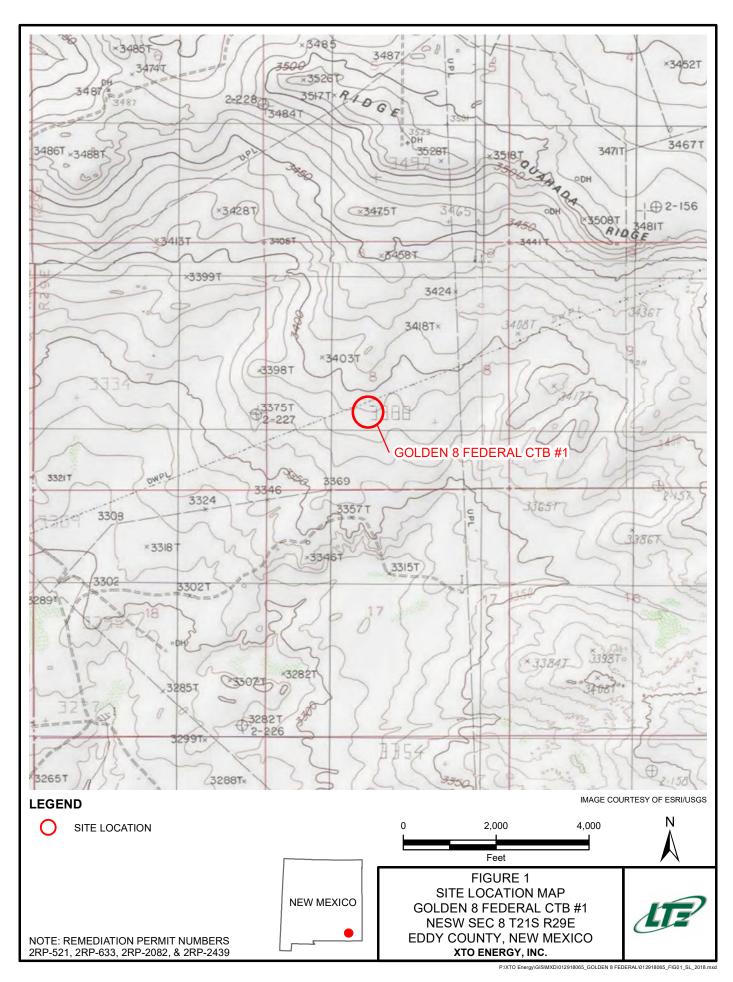
Table 1 Soil Analytical Results

Attachment 1 Lithologic/Soil Sampling Logs

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports





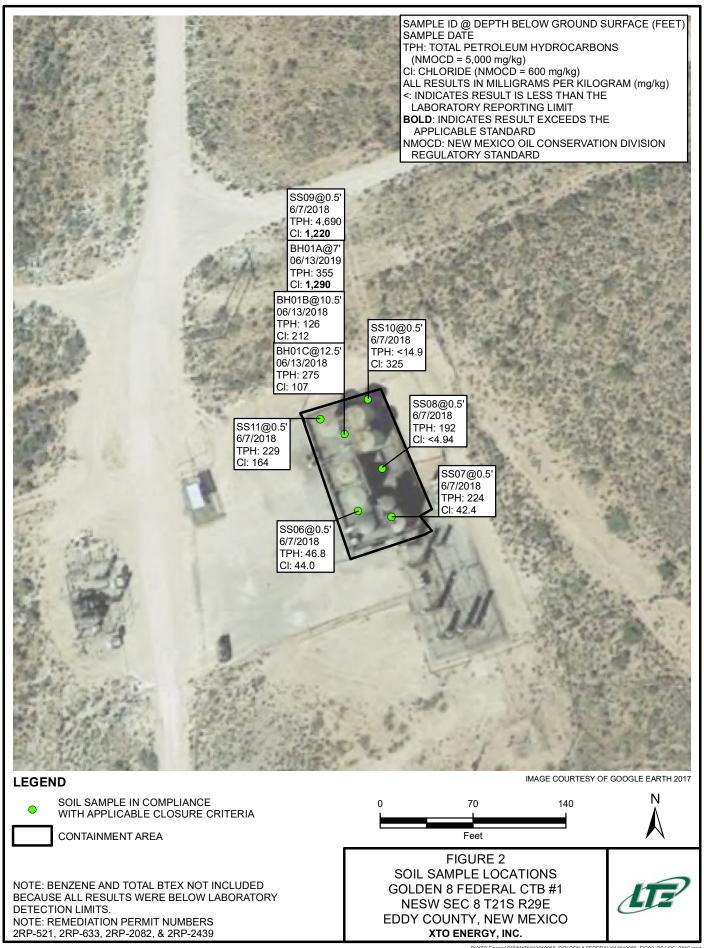


TABLE 1 SOIL ANALYTICAL RESULTS

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 Environn	nental Inc		L 5	L T Envir 508 Wesi	ronmenta t Stevens	al, Inc. Street		Identifier: BH01	Date: 6/13/2019
Advancing 0	Opportunity		Car	Isbad, N	ew Mexic	Street co 88220)	Project Name:	RP Number:
4	AR		Compli	iance · Ei	ngineering	ı · Remedi	ation	Golden 8 Federal #1	2RP-521, 2RP-633, 2RP-2082, and 2RP-243
		LITHO	LOGIC			LING LO)G	Logged By: L. Laumbach	Method: Hand Auger
Lat/Long: 32.491438	8, -104.008	R147			Field Scree	ening:		Hole Diameter: 3"	Total Depth: 12.5'
Comments									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Litholo	gy/Remarks
		[0				
					1				
					2				
					3				
	985	352			4	4'	S	Caliche/sand light brown	n- hydrocarbon odor detected
					5				
					6				
	1160	215		BH01 A	7	7'	S	sand/ o	clay brown
					8				
	462	95.4			9	9.5'	S	sand/clay brown- no stainin	ng or hydrocarbon odor detected
	156.4	492]	BH01B	10	10.5'		sand/clay brown- no stainin	g or hydrocarbon odor detected
	50.1	630			11	11.5'		caliche/sand- no staining	or hydrocarbon odor detected
	65.1	115]	BH01C	12	12.5'		caliche/sand- no staining or hydro	ocarbon odor detected; auguer refusal



Western view of lined tank battery containment.

Project: 012918065	XTO Energy, Inc. Golden 8 Federal Battery #1	LTZ
March 3, 2018	Photographic Log	Advancing Opportunity

Page 1 of 2



View of lined tank battery containment and liner hole during soil sampling activities.

Project: 012918065	XTO Energy, Inc. Golden 8 Federal Battery #1	ITE
March 4, 2018	Photographic Log	Advancing Opportunity

Page 2 of 2



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,

Jessica Kramer

fession beamer

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

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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

XENCO

CASE NARRATIVE

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

Project ID: Report Date: 11-JUN-18 Work Order Number(s): 588640 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.



Certificate of Analysis Summary 588640 LT Environmental, Inc., Arvada, CO

Project Name: Golden 8 Federal #1

Project Id:

Contact: Adrian Baker NM 2RP-2439 **Project Location:**

Date Received in Lab: Fri Jun-08-18 10:09 am

Report Date: 11-JUN-18 Project Manager: Jessica Kramer

	Lab Id:	588640-0	001	588640-0	002	588640-0	003	588640-	004	588640-	005	588640-0	006
Analysis Pagyastad	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	,	SOIL		SOIL		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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi



Jessica Kramer Project Assistant





Wet Weight

LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

06.08.18 15.15

Sample Id: SS06 @ 6"bgs. Matrix: Soil Date Received:06.08.18 10.09

Date Prep:

Lab Sample Id: 588640-001 Date Collected: 06.07.18 10.00 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Basis:

Tech: OJS % Moisture:

Seq Number: 3052933

Analyst:

Tech:

SCM

ARM

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

% Moisture:

Analyst: ARM Date Prep: 06.08.18 14.00 Basis: Wet Weight

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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: SS06 @ 6"bgs. Matrix: Soil Date Received:06.08.18 10.09

Lab Sample Id: 588640-001 Date Collected: 06.07.18 10.00 Sample Depth: 6 In

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

Tech: ALJ % Moisture:

Analyst: ALJ Date Prep: 06.09.18 07.55 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 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
Ethylbenzene	100-41-4	< 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
o-Xylene	95-47-6	< 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
Total BTEX		< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	06.10.18 00.43		
1,4-Difluorobenzene		540-36-3	99	%	70-130	06.10.18 00.43		





Wet Weight

LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

SS07 Sample Id: Matrix: Soil Date Received:06.08.18 10.09

Lab Sample Id: 588640-002 Date Collected: 06.07.18 10.15 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

% Moisture:

Tech: OJS SCMAnalyst: 06.08.18 15.15 Basis: Date Prep:

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 SW8015 Mod

Prep Method: TX1005P

% Moisture:

ARM Analyst: 06.08.18 14.00 Basis: Wet Weight Date Prep:

Seq Number: 3052902

Tech:

ARM

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		





Wet Weight

LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

 $06.09.18\ 07.55$

Basis:

Sample Id: SS07 Matrix: Soil Date Received:06.08.18 10.09

Lab Sample Id: 588640-002 Date Collected: 06.07.18 10.15 Sample Depth: 6 In

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

Date Prep:

Tech: ALJ % Moisture:

Seq Number: 3052932

Analyst:

ALJ

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

SS08 Sample Id: Matrix: Soil Date Received:06.08.18 10.09

Lab Sample Id: 588640-003 Sample Depth: 6 In Date Collected: 06.07.18 10.35

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

% Moisture: Tech: OJS

> 06.08.18 15.15 Basis: Wet Weight Date Prep:

Seq Number: 3052933

Analyst:

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.94	4.94	mg/kg	06.09.18 01.20	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

ARM Tech: % Moisture:

ARM Analyst: 06.08.18 14.00 Basis: Wet Weight Date Prep:

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		





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 Collected: 06.07.18 10.35 Sample Depth: 6 In

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

ALJ % Moisture:

Analyst: ALJ Date Prep: 06.09.18 07.55 Basis: Wet Weight

Seq Number: 3052932

Tech:

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
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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

SS09 Sample Id: Matrix: Soil Date Received:06.08.18 10.09

Lab Sample Id: 588640-004 Sample Depth: 6 In Date Collected: 06.07.18 10.50

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Prep Method: TX1005P

Wet Weight

OJS % Moisture: Tech: SCMAnalyst: 06.08.18 15.15 Basis: Wet Weight Date Prep:

Seq Number: 3052933

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 Method: TPH by SW8015 Mod

% Moisture:

06.08.18 14.00 Basis: Date Prep:

Seq Number: 3052902

Tech:

Analyst:

ARM

ARM

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	659	74.8		mg/kg	06.09.18 02.04		5
Diesel Range Organics (DRO)	C10C28DRO	3900	74.8		mg/kg	06.09.18 02.04		5
Oil Range Hydrocarbons (ORO)	PHCG2835	129	74.8		mg/kg	06.09.18 02.04		5
Total TPH	PHC635	4690	74.8		mg/kg	06.09.18 02.04		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	121	%	70-135	06.09.18 02.04		
o-Terphenyl		84-15-1	117	%	70-135	06.09.18 02.04		





Wet Weight

LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

06.10.18 08.30

SS09 Soil Date Received:06.08.18 10.09 Sample Id: Matrix:

Lab Sample Id: 588640-004 Date Collected: 06.07.18 10.50 Sample Depth: 6 In

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

Date Prep:

% Moisture:

Basis:

Tech: ALJ

Seq Number: 3052970

Analyst:

ALJ

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
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		





Wet Weight

LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

06.08.18 15.15

SS10 Sample Id: Matrix: Soil Date Received:06.08.18 10.09

Date Prep:

Lab Sample Id: 588640-005 Sample Depth: 6 In Date Collected: 06.07.18 11.00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Basis:

OJS % Moisture: Tech:

Seq Number: 3052933

Analyst:

Tech:

SCM

ARM

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 SW8015 Mod

Prep Method: TX1005P

% Moisture:

ARM Analyst: 06.08.18 14.00 Basis: Wet Weight Date Prep:

Gasoline Range Hydrocarbons (GRO) PHC610 <14.9	Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Oil Range Hydrocarbons (ORO) PHCG2835 <14.9 mg/kg 06.09.18 02.25 U Total TPH PHC635 <14.9 14.9 mg/kg 06.09.18 02.25 U Surrogate Cas Number % Recovery Units Limits Analysis Date Flag 1-Chlorooctane 111-85-3 95 % 70-135 06.09.18 02.25	Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Total TPH PHC635 <14.9 mg/kg 06.09.18 02.25 U Surrogate Cas Number Recovery With Recovery Units Limits Analysis Date Flag 1-Chlorooctane 111-85-3 95 % 70-135 06.09.18 02.25 Flag	Diesel Range Organics (DRO)	C10C28DRO	<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	Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
SurrogateCas Number RecoveryRecoveryUnitsLimitsAnalysis DateFlag1-Chlorooctane111-85-395%70-13506.09.18 02.25	Total TPH	PHC635	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
	Surrogate		Cas Number		Units	Limits	Analysis Date	Flag	
o-Terphenyl 84-15-1 98 % 70-135 06 09 18 02 25	1-Chlorooctane		111-85-3	95	%	70-135	06.09.18 02.25		
0-1crpnenyi 04-15-1 76 /0 70-155 00.07.10 02.25	o-Terphenyl		84-15-1	98	%	70-135	06.09.18 02.25		





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 Collected: 06.07.18 11.00 Sample Depth: 6 In

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

% Moisture:

Analyst: ALJ Date Prep: 06.09.18 07.55 Basis: Wet Weight

Seq Number: 3052932

ALJ

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
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		





Wet Weight

LT Environmental, Inc., Arvada, CO

06.08.18 15.15

Golden 8 Federal #1

Sample Id: **SS11** Matrix: Soil Date Received:06.08.18 10.09

Date Prep:

Lab Sample Id: 588640-006 Sample Depth: 6 In Date Collected: 06.07.18 10.20

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Basis:

OJS % Moisture: Tech:

Seq Number: 3052933

Analyst:

Tech:

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	164	4.98	mg/kg	06.09.18 01.47		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P ARM

% Moisture:

ARM Analyst: $06.08.18\ 14.00$ Basis: Wet Weight Date Prep:

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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

SS11 Soil Date Received:06.08.18 10.09 Sample Id: Matrix:

Lab Sample Id: 588640-006 Date Collected: 06.07.18 10.20 Sample Depth: 6 In

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

Date Prep:

% Moisture:

Tech: ALJ ALJ Basis: Analyst: $06.09.18\ 07.55$ Wet Weight

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
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		



Flagging Criteria



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

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 588640

LT Environmental, Inc.

Golden 8 Federal #1

Analytical Method: Inorganic Anions by EPA 300

3052933 Seq Number:

LCS Sample Id: 7656302-1-BKS 7656302-1-BLK

Matrix: Solid

LCSD

Prep Method: Date Prep: 06.08.18

E300P LCSD Sample Id: 7656302-1-BSD

Parameter

MB

LCS

%RPD RPD Limit Units

Analysis Date

Chloride

MB Sample Id:

Result Amount < 5.00 250

Spike

Result %Rec 270 108

LCS

Result %Rec 267 107

LCSD

90-110

Limits

20 mg/kg

Flag 06.09.18 00:05

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3052933 Matrix: Soil

Prep Method: Date Prep:

E300P 06.08.18

Parent Sample Id:

588639-001

MS Sample Id: 588639-001 S MSD Sample Id: 588639-001 SD

20

Date

Parameter

Parent

MS MS

Result

345

MSD MSD %RPD RPD Limit Units Analysis

Flag

Chloride

Result Amount 47.6 247

Spike

%Rec 120 Result %Rec 337 117

90-110

2

Limits

mg/kg

06.09.18 00:21 X

Analytical Method: Inorganic Anions by EPA 300

3052933

Matrix: Soil

248

Prep Method:

E300P

Date Prep: 06.08.18

mg/kg

Parent Sample Id:

Seq Number:

588640-005

MS Sample Id: 588640-005 S

104

MSD Sample Id: 588640-005 SD

Analysis

Parameter Chloride

Parent Spike Result Amount

325

<15.0

106

MS MSResult %Rec 583

MSD MSD Result %Rec 584

Limits 104 90-110

%RPD RPD Limit Units 20

Date

Flag

Analytical Method: TPH by SW8015 Mod

3052902

Matrix: Solid

%Rec

122

108

Prep Method:

0

TX1005P

Seq Number:

Gasoline Range Hydrocarbons (GRO)

LCS Sample Id:

7656356-1-BKS

Date Prep: LCSD Sample Id: 7656356-1-BSD

06.08.18

MB Sample Id: 7656356-1-BLK MB LCS LCS Spike LCSD LCSD Limits **Parameter** Result Result Amount %Rec %Rec Result

%RPD RPD Limit Units

Analysis Flag Date

06.09.18 01:36

Diesel Range Organics (DRO)

o-Terphenyl

MB Surrogate %Rec 101 1-Chlorooctane

<15.0 1000 MB Flag

1000

943 94 993 99 LCS LCS

Flag

954 1000

95 70-135 100 70-135

LCSD

Flag

LCSD

%Rec

125

107

1

Limits

70-135

70-135

20 20

06.08.18 19:37 mg/kg 06.08.18 19:37 mg/kg

Units Analysis

Date 06.08.18 19:37 % 06.08.18 19:37 %

MS/MSD Percent Recovery

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

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

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

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

Flag

Flag



QC Summary 588640

LT Environmental, Inc.

Golden 8 Federal #1

Analytical Method:TPH by SW8015 ModPrep Method:TX1005PSeq Number:3052902Matrix: SoilDate Prep:06.08.18

Parent Sample Id: 588620-001 MS Sample Id: 588620-001 S MSD Sample Id: 588620-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<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	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		124		70-135	%	06.08.18 20:38
o-Terphenyl	107		107		70-135	%	06.08.18 20:38

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

 Seq Number:
 3052932
 Matrix:
 Solid
 Date Prep:
 06.09.18

 MB Sample Id:
 7656352-1-BLK
 LCS Sample Id:
 7656352-1-BKS
 LCSD Sample Id:
 7656352-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
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	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		95		94		70-130	%	06.09.18 18:38
4-Bromofluorobenzene	93		95		99		70-130	%	06.09.18 18:38

Analytical Method:BTEX by EPA 8021BPrep Method:SW 5030BSeq Number:3052970Matrix:SolidDate Prep:06.10.18

MB Sample Id: 7656395-1-BLK LCS Sample Id: 7656395-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
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
	MR	MR	T	CS I	CS	I CSI	LCS	р т	imite	Units	Analysis

Surrogate	MB %Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Units	Date
1,4-Difluorobenzene	93		99		94		70-130	%	06.10.18 19:28
4-Bromofluorobenzene	87		98		94		70-130	%	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]

[D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result

C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec 4-Bromofluorobenzene

06.09.18 19:16

Flag



QC Summary 588640

LT Environmental, Inc.

Golden 8 Federal #1

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3052932Matrix:SoilDate Prep:06.09.18Parent Sample Id:588112-021MS Sample Id:588112-021 SMSD 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	X
Toluene	< 0.00200	0.100	0.0502	50	0.0567	57	70-130	12	35	mg/kg	06.09.18 19:16	X
Ethylbenzene	< 0.00200	0.100	0.0468	47	0.0537	54	70-130	14	35	mg/kg	06.09.18 19:16	X
m,p-Xylenes	< 0.00401	0.200	0.0968	48	0.111	56	70-130	14	35	mg/kg	06.09.18 19:16	X
o-Xylene	< 0.00200	0.100	0.0465	47	0.0653	66	70-130	34	35	mg/kg	06.09.18 19:16	X
Surrogate				AS Rec	MS Flag	MSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene				88		106	;	7	0-130	%	06.09.18 19:16	

104

70-130

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3052970Matrix:SoilDate Prep:06.10.18

95

Parent Sample Id: 588647-004 MS Sample Id: 588647-004 S MSD Sample Id: 588647-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
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	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		70-130	%	06.10.18 20:04
4-Bromofluorobenzene	104		106		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]

[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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Dall	Dallas Texas (214-902-0300)	M	Midland, Texas (432-704-5251)	(432-704-5)	251)								1	100)	
					www.xenco.com	.com			Xenco Quote #	te #		Xenco Job #	Q	6	0	
										Analyt	Analytical Information	ion			Matrix Codes	
_	Client / Reporting Information			Project Information	rmation											
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Compan	Company Address:	Pr	Project Location:	- 1						10					GW = Ground Water	Nater
3300 N	lorth "A" Street, Building 1, Unit #103, Midland, TX	79705		MW	JRP.	JRP-2439			BTE						P = Product	Water
Email:	Email: Phone No:		Invoice To:	Horati					1						SW = Surface water	water
Abaker	Abaker@LTEnv.com (432) 704-5178		o chicago and						on	00.					OW =Ocean/Sea Water	ea Water
Project (Adrian	Project Contact: Adrian Baker	P	PO Number:							1 "					WI = Wipe	
Sampler	Samplers's Name Goda la Malach								202						WW= Waste Water	ater
	0	0	Collection			Number	Number of preserved bottles	bottles		Mide					A = Air	
No.	Field ID / Point of Collection	Sample	Date Time	e Matrix	# of bottles	NaOH/Zn Acetate	HNO3 H2SO4 NaOH	MEOH NONE	BTEX	chlor					Field Comments	
_	SSO6 @ 6" bgs,	6" 8	06/7/18 10:00		_				X	X				ETB-5	-3	
2	5507		10:15	S)			×	XX	X				N-913	1	
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	Turnaround Time (Business days)				Data Deliver	Data Deliverable Information	on				Notes:	:86				
Ø.	Same Day TAT 5 Day TAT			Level II Std QC	d QC		Level IV	Level IV (Full Data Pkg /raw	kg /raw data)	٥						
	Next Day EMERGENCY 7 Day TAT		П	Level III S	Level III Std QC+ Forms	ms [TRRP Level IV	evel IV								
	2 Day EMERGENCY Contract TAT	ч	П	Level 3 (C	Level 3 (CLP Forms)		UST / RG -411	G -411								
	3 Day EMERGENCY		П	TRRP Checklist	ecklist											
	TAT Starts Day received by Lab, if received by 5:00 pm	5:00 pm									FED-EX	FED-EX / UPS: Tracking #	ing #			
Reli	Relinquished by Sampler:	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: Received By: Relinquished By:	DCUMENTED BELL	OW EACH TIN	ME SAMPLES	CHANGE PC	Relinquished By:	shed By:	RIER DELIVE	RY Date Time:	16:	Received	By	7 . 0	12/2	1
Reli	Relinquished by:	05/07/18 Date Time:	13:2015 Re	1 Through the Received By:	1	Ellary	Relinguished By:	shed By:	4	Co/7 Date Time:	15:30	Réceived By	N. C	my	KR	D
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5 Custody Seal # Preserved where applicable On ice Cooler Temp Cherro. Corr. Factor

| Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless provided unle Released to Imaging: 7/23/2021 11:55:46 AM



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 06/08/2018 10:09:00 AM

Work Order #: 588640

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

Temperature Measuring device used: R8

\$	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		4.2	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	er/ 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	d/ received?	Yes	
#10 Chain of Custody agrees with sample lab	els/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 to	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headspa	ce?	N/A	

* Must be completed for after	er-hours de	elivery of samples prior to pla	cing in the refrigerator
Analyst:		PH Device/Lot#:	
Checklist com	pleted by:	Bawa Tal Brianna Teel	Date: <u>06/08/2018</u>
Checklist rev	iewed by:	Jessica Vermer	Date: 06/08/2018

Jessica Kramer

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,

Jessica Kramer

Project Assistant

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

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



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

XENCO

CASE NARRATIVE

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

Project ID: Report Date: 15-JUN-18
Work Order Number(s): 589277
Date 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 re-

analysis.

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.



Certificate of Analysis Summary 589277

LT Environmental, Inc., Arvada, CO

Project Name: Golden 8 Federal 1



Project Id:

Contact: Adrian Baker **Project Location:** NM 2RP-3612

Date Received in Lab: Thu Jun-14-18 02:00 pm

Report Date: 15-JUN-18 **Project Manager:** Jessica Kramer

			1						
	Lab Id:	589277-0	01	589277-0	02	589277-0	003		
Analysis Requested	Field Id:	BH01 A	A	BH01 B		BH01 C			
Analysis Requesieu	Depth:	7- ft		10.5- ft		12.5- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jun-13-18 0	Jun-13-18 09:50		0:30	Jun-13-18 1	1:15		
BTEX by EPA 8021B	Extracted:	Jun-14-18 16:00		Jun-14-18 1	6:00	Jun-14-18 1	6:00		
	Analyzed:	Jun-14-18 1	Jun-14-18 19:08		9:26	Jun-14-18 1	9:44		
	Units/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		
n,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 1	4:30	Jun-14-18 14:30		Jun-14-18 14:30			
	Analyzed:	Jun-14-18 1	8:51	Jun-14-18 1	8:56	Jun-14-18 19:02			
	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 1	2:00	Jun-15-18 1	2:00	Jun-15-18 1	2:00		
	Analyzed:	Jun-15-18 1	4:06	Jun-15-18 1	5:06	Jun-15-18 1	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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Warner

Jessica Kramer Project Assistant





Wet Weight

LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Soil Matrix: Date Received:06.14.18 14.00 Sample Id: BH01 A

Date Prep:

Lab Sample Id: 589277-001 Sample Depth:7 ft Date Collected: 06.13.18 09.50

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Basis:

% Moisture:

06.14.18 14.30

Seq Number: 3053433

SCM

SCM

Tech:

Tech:

Analyst:

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 SW8015 Mod

Prep Method: TX1005P ARM

% Moisture:

JUM Analyst: Basis: Wet Weight Date Prep: 06.15.18 12.00

Seq Number: 3053586

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
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		
o-Terphenyl		84-15-1	88	%	70-135	06.15.18 14.06		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample 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: BTEX by EPA 8021B Prep Method: SW5030B

Tech: ALJ % Moisture:

Analyst: ALJ Date Prep: 06.14.18 16.00 Basis: Wet Weight

Seq Number: 3053603

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		





LT Environmental, Inc., Arvada, CO

06.14.18 14.30

Golden 8 Federal 1

Soil Matrix: Date Received:06.14.18 14.00 Sample Id: BH01 B

Date Prep:

Lab Sample Id: 589277-002 Sample Depth: 10.5 ft Date Collected: 06.13.18 10.30

Prep Method: E300P Analytical Method: Inorganic Anions by EPA 300

Tech: SCM % Moisture: SCMAnalyst: Basis: Wet 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 SW8015 Mod

ARM

Prep Method: TX1005P

% Moisture:

JUM Analyst: Basis: Wet Weight Date Prep: 06.15.18 12.00

Seq Number: 3053586

Tech:

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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 B Matrix: Soil Date Received:06.14.18 14.00

Lab Sample Id: 589277-002 Date Collected: 06.13.18 10.30 Sample Depth: 10.5 ft

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

ALJ % Moisture:

Analyst: ALJ Date Prep: 06.14.18 16.00 Basis: Wet Weight

Seq Number: 3053603

Tech:

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		





Wet Weight

Basis:

LT Environmental, Inc., Arvada, CO

06.14.18 14.30

Golden 8 Federal 1

Soil BH01 C Matrix: Date Received:06.14.18 14.00 Sample Id:

Lab Sample Id: 589277-003 Date Collected: 06.13.18 11.15 Sample Depth: 12.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

> SCM % Moisture:

> > Date Prep:

Seq Number: 3053433

SCM

Tech:

Analyst:

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 SW8015 Mod

Prep Method: TX1005P Tech:

ARM % Moisture:

JUM Analyst: Basis: Wet Weight Date Prep: 06.15.18 12.00

Seq Number: 3053586

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		
o-Terphenyl		84-15-1	99	%	70-135	06.15.18 15.27		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 C Matrix: Soil Date Received:06.14.18 14.00

Lab Sample Id: 589277-003 Date Collected: 06.13.18 11.15 Sample Depth: 12.5 ft

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

% Moisture:

Analyst: ALJ Date Prep: 06.14.18 16.00 Basis: Wet Weight

Seq Number: 3053603

ALJ

Tech:

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		



Flagging Criteria



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

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 589277

LT Environmental, Inc.

LCSD

Golden 8 Federal 1

Inorganic Anions by EPA 300 Analytical Method:

Seq Number: 3053433

Parameter

Chloride

MB Sample Id: 7656636-1-BLK

Matrix: Solid

Spike

LCS

Result

LCS Sample Id: 7656636-1-BKS

Limits

LCSD

Date Prep: 06.14.18 LCSD Sample Id: 7656636-1-BSD

Prep Method: E300P

%RP RPD Units Analysis Flag Limit Date

Result Amount Result %Rec Chloride < 5.00 257 103 257 103 90-110 0 20 06.14.18 12:29 250 mg/kg

LCS

%Rec

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3053433

588898-002

Matrix: Soil MS Sample Id: 588898-002 S

D

Prep Method: E300P

Date Prep: 06.14.18 MSD Sample Id: 588898-002 SD

mg/kg

Parent Sample Id: **Parameter**

Parent Spike Result Amount 321 250

MS MS Result % Rec558 95

MSD MSD Result %Rec

95

559

Limits 90-110 0

%RP RPD Limit D

20

Units Analysis Date

Flag

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3053433

Matrix: Soil

%RP

D

2

Prep Method: E300P

Date Prep: 06.14.18

Parent Sample Id:

589043-001

MS Sample Id: 589043-001 S

MSD Sample Id: 589043-001 SD RPD

Analysis

Date

06.14.18 17:57

Parameter Chloride

Parent Spike Result Amount 7 35

MS MS Result %Rec 247 270 106

MSD Result 264

%Rec 104 90-110

MSD

Limits

Limit 20

Units 06.14.18 12:46

mg/kg

Flag

Flag

Analytical Method:

TPH by SW8015 Mod

3053586 Seq Number: MB Sample Id: 7656745-1-BLK

Matrix: Solid LCS Sample Id: 7656745-1-BKS

Prep Method: TX1005P

Date Prep: 06.15.18 LCSD Sample Id: 7656745-1-BSD

RPD MB LCS LCS %RP Units Analysis Spike LCSD LCSD Limits **Parameter** Result Limit Date Result Amount %Rec Result %Rec D Gasoline Range Hydrocarbons (GRO) 837 20 06.15.18 13:26 <15.0 1000 84 847 85 70-135 1 mg/kg 06.15.18 13:26 Diesel Range Organics (DRO) 1000 827 83 854 85 70-135 3 20 <15.0 mg/kg

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	80		107		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

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

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

LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result \mathbf{C} = MSD/LCSD Result

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

Parent Sample Id:

MB Sample Id:

Flag



QC Summary 589277

LT Environmental, Inc.

Golden 8 Federal 1

Analytical Method: TPH by SW8015 Mod

3053586 589277-001

Matrix: Soil

Prep Method: TX1005P

Date Prep: 06.15.18

MSD Sample Id: 589277-001 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 Hydrocarbons (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	

MS Sample Id: 589277-001 S

Surrogate	MS %Rec	MS Flag	MSD MSD %Rec Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		102	70-135	%	06.15.18 14:26
o-Terphenyl	54	**	90	70-135	%	06.15.18 14:26

Analytical Method: BTEX by EPA 8021B

3053603 Seq Number:

7656667-1-BLK

Matrix: Solid

LCS Sample Id: 7656667-1-BKS

Prep Method: SW5030B

Date Prep: 06.14.18

LCSD Sample Id: 7656667-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0941	94	0.0871	87	70-130	8	35	mg/kg	06.14.18 17:19
Toluene	< 0.00200	0.100	0.101	101	0.0930	93	70-130	8	35	mg/kg	06.14.18 17:19
Ethylbenzene	< 0.00200	0.100	0.0993	99	0.0925	93	70-130	7	35	mg/kg	06.14.18 17:19
m,p-Xylenes	< 0.00401	0.200	0.208	104	0.194	97	70-130	7	35	mg/kg	06.14.18 17:19
o-Xylene	< 0.00200	0.100	0.106	106	0.0910	91	70-130	15	35	mg/kg	06.14.18 17:19

%Rec	Flag	%Rec	Flag	%Rec	Flag	Linits	Omis	Date
98		92		99		70-130	%	06.14.18 17:19
89		100		122		70-130	%	06.14.18 17:19
	98	%Rec Flag 98	% Rec Flag % Rec 98 92	%Rec Flag %Rec Flag 98 92	%Rec Flag %Rec Flag %Rec 98 92 99	%Rec Flag %Rec Flag %Rec Flag 98 92 99	%Rec Flag %Rec Flag 98 92 99 70-130	%Rec Flag %Rec Flag 98 92 99 70-130 %

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053603 Parent Sample Id:

Matrix: Soil 588822-002 MS Sample Id: 588822-002 S Prep Method: SW5030B Date Prep: 06.14.18

MSD Sample Id: 588822-002 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	X
Toluene	< 0.00201	0.100	0.0592	59	0.0663	66	70-130	11	35	mg/kg	06.14.18 17:55	X
Ethylbenzene	< 0.00201	0.100	0.0519	52	0.0592	59	70-130	13	35	mg/kg	06.14.18 17:55	X
m,p-Xylenes	< 0.00402	0.201	0.107	53	0.120	60	70-130	11	35	mg/kg	06.14.18 17:55	X
o-Xylene	< 0.00201	0.100	0.0520	52	0.0572	57	70-130	10	35	mg/kg	06.14.18 17:55	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		97		70-130	%	06.14.18 17:55
4-Bromofluorobenzene	106		123		70-130	%	06.14.18 17:55

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

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

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

LCS = Laboratory Control Sample A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result

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

CHAIN OF CUSTODY

Relinquished by: 5 Notice: Notice: Simplifies of this document and reliminishment of samples cooperations.	3	Relinquished by:		TAT Starts Day received by Lab, if received by 5:00 pm	3 Day EMERGENCY	2 Day EMERGENCY Contract TAT	Next Day EMERGENCY 7 Day TAT	Same Day TAT 5 Day TAT	Turnaround Time (Business days)	10	9	00	7	6	55	4	3 BHOIC	2 BHO & B	1 BHO A	No. Field ID / Point of Collection		Samplers's Name Lynde Lamberch	Project Contact: Adrian Baker	ar@LTEnv.com	3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705	Company Address:	Company Name / Branch: LT Environmental, Inc Permian Office	Client / Reporting Information			Dallas Texas (214-902-0300)	Stafford,Texas (281-240-4200)
eceived By: Custody Seal #	14:00 3 Kell Market Mar		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	5:00 pm	TRRP Checklist	T Level 3 (CLP Forms) UST / RG -411	Level III Std QC+ Forms TRRP Level IV	Level II Std QC Level IV (Full Data Pkg /raw data)	Data Deliverable Information								12.5' V 11:15 S 1 XXXX	10.5' 10:30 S 1 XXXX	7' 04/14/14 9:50 S 1	MODIFICATION OF THE PH	M	80		XTO Energy - Kyle Littrell	Invoice To: NM ZRD-3612	B	Project NamelNumber: 6 older 8 federa 1	bject Information		WWW.X8DCO.COM Xenco Quote #	Midland, Texas (432-704-5251)	San Antonio, Texas (210-509-3334) Phoenix, Ari:
Preserved where applicable On Ige Cooler Temp. Thermo. Corr. Factor	Date lime: Received by:	DE:51 B	The Tank of G. Hawking #	FED.EX / UPS: Tracking #					Notes:								•		0000	Field Comments		de U=Oil WW= Waste Water	WI = Wipe	Sw = Surface water SL = Sludge Water OW = Ocean/Sea Water) GW =Ground Water	W = Water S = Soil/Sed/Solid		Analytical Information Matrix Codes	Xanco Job # S C C C		Phoenix, Arizona (480-355-0900)

6/13/2018



After printing this label:

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 06/14/2018 02:00:00 PM

Work Order #: 589277

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

Temperature Measuring device used: R8

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3.5	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	er/ 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	ed/ received?	Yes	
#10 Chain of Custody agrees with sample lal	pels/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 to	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headspa	ice?	N/A	

* Must be	completed for after-hours de	elivery of samples prior to plac	ing in the refrigerator
Analyst:		PH Device/Lot#:	
	Checklist completed by:	Bright Tol	Date: <u>06/14/2018</u>
	Checklist reviewed by:	Jessica Kramer Jessica Kramer	Date: <u>06/14/2018</u>

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

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

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

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

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

CONDITIONS

Action 3174

CONDITIONS

Operator:	OGRID:
BOPCO, L.P.	260737
6401 Holiday Hill Rd Midland, TX 79707	Action Number: 3174
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Deferral approved for nAB1422637219 until P&A of major modification of location	7/23/2021