<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
811 S. First St., Artesia, NM 88210
<u>District III</u>
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 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	NRM2011445697
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID 5	5380
Contact Name Kyle Littrell				Contact Te	elephone 432-221-7331
Contact ema	il Kyle_Lit	ttrell@xtoenergy.c	om	Incident #	(assigned by OCD)
Contact mail	ing address	522 W. Mermod	, Carlsbad, NM 88	220	
			Location	of Release So	ource
Latitude 32.3	381266			Longitude	-103.884166
Latitude			(NAD 83 in dec	imal degrees to 5 decim	nal places)
Site Name J	RU DI1 BS:	2A 7E 211H		Site Type	Well Pad
Date Release				API# (if app	
Unit Letter	Section	Township	Range	Coun	nty
G	21	22S	30E	Edd	<u>. </u>
	21	225	302	Edd	9
Surface Owner	r: State	ĭ Federal ☐ Tr	ribal 🔲 Private (Λ	Iame:)
Nature and Volume of Release					
				calculations or specific	justification for the volumes provided below)
Crude Oil		Volume Release	d (bbls)		Volume Recovered (bbls)
➤ Produced	Water	Volume Release	d (bbls) ₁₀		Volume Recovered (bbls) 9.8
			ion of total dissolv water >10,000 mg/	\ /	☐ Yes ☐ No
Condensa	ite	Volume Release	d (bbls)		Volume Recovered (bbls)
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)		
Cause of Rel	contain	ment nad a note w	nich reieasea 0.26i	oi to the pad surfac	0 barrels of water to the lined containment. The ce. A vacuum truck was dispatched and recovered 9.8 retained for remediation activities.

Page 2

State of New Mexico
Oil Conservation Division

	I ugo noj I
Incident ID	NRM2011445697
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by	N/A	
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
ICITED 11	i i de agra r	0.177
·	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
N/A		
	Initial Re	esponse
The responsible	party must undertake the following actions immediatel	v unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment
	•	
		ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain v	vhy:
N/A		
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		post of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
		CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o and/or regulations.	of a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
_	no.11	CII 9. E. Crum aurigan
Printed Name: Kyle Littr	len	Title: SH&E Supervisor
Signature:	10 -11	Date: 4-21-20
email: Kyle_Littrell@xto	penergy.com	Telephone: 432-221-7331
OCD Only		
Received by: Ramona	a Marcus	D 4 4/22/2020
Received by:		Date: 4/23/2020

NRM2011445697

Location:	JRU DI1 BS2A 7E 211H		
Spill Date:	4/7/2020		
	Area 1		
Approximate A	rea =	227.00	sq. ft.
Average Satura	ation (or depth) of spill =	2.00	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Produced	Water =	0.20	bbls
Area 2			
Approximate A	rea =	54.90	cu. ft.
	VOLUME RECOVERED		
Total Produced	Water =	9.80	bbls

TOTAL VOLUME OF LEAK			
Total Produced Water =		10.00	bbls
TOTAL VOLUME RECOVERED			
Total Produced Water =		9.80	bbls

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Page 4 of 123 NRM2011445697 Incident ID District RP Facility ID Application ID

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler 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?	X Yes I∑l 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.			

Characterization Report Checklist: Each of the following items must be included in the report.
<u> </u>
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.

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State of New Mexico
Page 4
Oil Conservation Division

P	age	e 5	01	123

	1 480 0 0 11
Incident ID	NRM2011445697
District RP	
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:10/7/20		
email:Kyle_Littrell@xtoenergy.com	Telephone:		
OCD Only			
Received by: Cristina Eads	Date: 10/09/2020		

Received by OCD: 12/10/2020 1:58:557 PM
From C-141 State of New Mexico
Page 5 Oil Conservation Division

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Incident ID NRM2011445697
District RP
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 confirmation	med as part of any request for deferral of remediation.		
☑ Contamination must be in areas immediately under or around produceonstruction.	action 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, th	ne environment, or groundwater.		
Signature:	ain release notifications and perform corrective actions for releases of a C-141 report by the OCD does not relieve the operator of a remediate contamination that pose a threat to groundwater, eptance of a C-141 report does not relieve the operator of		
OCD Only			
Received by: Cristina Eads	Date: 10/09/2020		
Approved With Attached Conditions of Ap	proval		
Signature: Danie Da	te: 12/10/2020		

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
811 S. First St., Artesia, NM 88210
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<u>District IV</u>
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	NRM2011535196
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID	5380	
Contact Name Kyle Littrell				Contact Te	Telephone 432-221-7331	
Contact ema	il Kyle_Li	ttrell@xtoenergy.c	com	Incident #	(assigned by OCD)	
Contact mail	ling address	522 W. Mermod	l, Carlsbad, NM 88	3220		
			Location	of Release So		
Latitude 32.3	Latitude 32.38126		Longitude _	-103.88416	_	
			(NAD 83 in dec	cimal degrees to 5 decin	mal places)	
Site Name	JRU DI1 BS	2A 7W 212H		Site Type	Well Pad	
Date Release	Discovered	04/09/2020		API# (if app	pplicable)	
Unit Letter	Section	Township	Range	Cour	inty	
G	21	22S	30E		-	
G 21 22S 30E Eddy		<u>.,</u>				
Surface Owne	er: State	x Federal ☐ Ti	ribal Private (A	Vame:)	
			Nature and	l Volume of I	Release	
		1/				
Material(s) Released (Select all that apply and attach calculated Crude Oil Volume Released (bbls)		calculations or specific	Volume Recovered (bbls)			
			Volume Recovered (bbls) 9.7			
Is the concentration of total dissolved sol in the produced water >10,000 mg/l?			☐ Yes ☐ No			
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)			
Cause of Rel	capture dispate	d within the lined hed and recovered	containment. A he all 8 barrels from	ole in containment	asing 10 barrels of fluid. 8 barrels of produced wat allowed 2 barrels to impact pad. Vacuum truck ment, and 1.7 barrels from the pad tion activities.	

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State of New Mexico
Oil Conservation Division

	I uge o of I
Incident ID	NRM2011535196
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respor	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
☐ Yes ☐ No		
·	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
N/A		
	Initial Re	esponse
The responsible	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
▼ The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
★ All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
N/A		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations.	required to report and/or file certain release notifient. The acceptance of a C-141 report by the O gate and remediate contamination that pose a threaf a C-141 report does not relieve the operator of	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Kyle Littr	rell	Title: SH&E Supervisor
Signature:	Letter II	Date: 4-23-20
email: Kyle_Littre#@xto	penergy.com	Telephone: 432-221-7331
email:		l elephone:
OCD Only		
Received by: Ramona	a Marcus	Date: 4/24/2020

NRM2011535196

Location:	JRU DI 1 BS2A 7W 212H		
Spill Date:	Spill Date: 4/9/2020		
	Area 1		
Approximate A	rea =	342.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.00	inches
Average Porosi	Average Porosity Factor = 0.03		
VOLUME OF LEAK			
Total Produced	Total Produced Water = 2.00 bbls		bbls
Area 2			
Approximate Area = 44.78 cu. Ft.			cu. Ft.
VOLUME RECOVERED IN CONTAINMENT			
Total Produced Water = 8.00 bbls		bbls	
TOTAL VOLUME OF LEAK			
Total Produced	Total Produced Water = 10.00 bl		bbls
	TOTAL VOLUME RECOVERED		
Total Produced	Water =	9.70	bbls

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Site Assessment/Characterization

This information must be provided to the appropriate district office no taler 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?	X 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.		

COIII	animation associated with the release have been determined. Refer to 17.13.25.11 Awize for specifies.
<u>Ch</u>	naracterization Report Checklist: Each of the following items must be included in the report.
NXXXXXXX	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
	Laboratory data including chain of custody

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

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Pago	,,,	Ot	177
1 466		vi.	140

	1 480 11 0/ 1
Incident ID	NRM2011535196
District RP	
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:10/7/20	
email: Kyle_Littrell@xtoenergy.com	Telephone:	
OCD Only		
Received by: Cristina Eads	Date:10/09/2020	

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

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Incident ID NRM2011535196
District RP
Facility ID
Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.		
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Kyle Littrell Signature: Signature: Myle Littrell@xtoenergy.com Telephone: Telephone:		
OCD Only		
Received by: Cristina Eads Date: 10/09/2020		
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved		
Signature:		

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

Responsible Party

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	NRM2011559899
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Name			Contact Te	elephone		
Contact email			Incident #	Incident # (assigned by OCD)		
Contact mail	ing address			1		
			Location	of Release So	ource	
Latitude			(NAD 83 in deci	Longitude _ imal degrees to 5 decin	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	olicable)	
Unit Letter	Section	Township	Range	Cour	nty	
Crude Oil		l(s) Released (Select all Volume Released	that apply and attach c	Volume of l	Release justification for the volu Volume Recovere	
Produced		Volume Released			Volume Recovere	
Is the concentration of total dissolved so in the produced water >10,000 mg/l?				Yes No	()	
Condensa	nte	Volume Released			Volume Recovere	ed (bbls)
Natural G	ias	Volume Released	l (Mcf)		Volume Recovere	ed (Mcf)
Other (describe) Volume/Weight Released (provide unit			units)	Volume/Weight R	Recovered (provide units)	
Cause of Rel	ease	<u>I</u>			ı	

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Oil Conservation Division

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Incident ID NRM2011559899
District RP
Facility ID
Application ID

Was this a major release as defined by	If YES, for what reason(s) does the respon	sible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If VEC was immediate to	ation airrow to the OCD? Dr. whom? To wh	om? When and by what means (phone, email, etc)?
II 1 ES, was ininediate no	once given to the OCD? By whom? To who	om? when and by what means (phone, email, etc)?
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area has	s been secured to protect human health and t	he environment.
☐ Released materials ha	ave been contained via the use of berms or di	kes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	
If all the actions described	d above have <u>not</u> been undertaken, explain w	hy:
has begun, please attach a	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environn failed to adequately investiga addition, OCD acceptance of and/or regulations.	required to report and/or file certain release notifient. The acceptance of a C-141 report by the Otate and remediate contamination that pose a threaf a C-141 report does not relieve the operator of	est of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have t to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature:	ZHLY	Date:
email:		Telephone:
OCD Only		
Received by:		Date:

Location:	JRU DI1 BS1 3E 213H		
Spill Date:	4/10/2020		
	Area 1		
Approximate A	rea =	2242.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.00	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Produced	Water =	6.00	bbls

TOTAL VOLUME OF LEAK					
Total Produced Water =	6.00	bbls			
TOTAL VOLUME RECOVERED					
Total Produced Water =	4.00	bbls			

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Incident ID	NRM2011559899	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>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?	X Yes I∑l 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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 wel ✓ Field data ✓ Data table of soil contaminant concentration data ✓ Depth to water determination 	ls.

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.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

■ Laboratory data including chain of custody

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Page 4 Oil Conservation Division

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	1 180 1 10 1
Incident ID	NRM2011559899
District RP	
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 noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, 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 at to groundwater, surface water, human health or the environment. In
Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature:	Date:10/7/20
email:Kyle_Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by: Cristina Eads	Date: 10/09/2020

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Page 5 Oil Conservation Division

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Incident ID NRM2011559899

District RP
Facility ID
Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be inc	cluded 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) ☑ Proposed schedule for remediation (note if remediation plan timeling) 	
Deferral Requests Only: Each of the following items must be confirm	ned as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around produ deconstruction.	
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health, the	e environment, or groundwater.
Signature: Kyle_Littrell@xtoenergy.com	in release notifications and perform corrective actions for releases of a C-141 report by the OCD does not relieve the operator of d remediate contamination that pose a threat to groundwater, ptance of a C-141 report does not relieve the operator of
OCD Only	
Received by: Cristina Eads D	ate:10/09/2020
Approved With Attached Conditions of Approved	oroval
Signature: Dat	e: 12/10/2020

Received by OCD: 12/10/2020 13585574PM

District III
1000 Río 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 Page 19 of 123
Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2006432204
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			псоро	nsible 1 al ty					
Responsible Party XTO Energy					OGRID 5380				
Contact Name Kyle Littrell					Contact Telephone 432-221-7331				
Contact email k	Kyle_Lit	trell@xtoenergy.	com	Incident #	(assigned by OCD)				
Contact mailing a	ddress	522 W. Mermod	d, Carlsbad, NM 882	220					
.			Location of	f Release So	ource				
Latitude	32	2.380774	(NAD 83 in decin	Longitude nal degrees to 5 decim	-103.881894 places)				
Site Name JRU I	DI 1 #21	1H		Site Type	Well Pad				
Date Release Disco	overed	02/18/2020		API# (if app	licable) NA				
	ction	Township	Range	Coun	ty				
H 21		22S	30E	Eddy					
Surface Owner:		s) Released (Select al	Nature and	Volume of I	justification for the volumes provided below)				
Crude Oil		Volume Release	d (bbls)		Volume Recovered (bbls)				
☐ Produced Water	er	Volume Release	d (bbls) 5		Volume Recovered (bbls) 4.95				
		Is the concentrate produced water	ion of dissolved chl >10,000 mg/l?	oride in the	☐ Yes ☐ No				
Condensate		Volume Release	d (bbls)		Volume Recovered (bbls)				
☐ Natural Gas Volume Released (Mcf)					Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)									
2.5 barrels remain	ed in co	ntainment and 2.5		ed to the pad surfa	otal volume released was 5 barrels of produced water. ace. Vacuum truck recovered 4.95 barrels. A third party				

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Oil Conservation Division

Incident ID	NRM2006 4 Page 20 of 12
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No If YES, was immediate n		ponsible party consider this a major release? whom? When and by what means (phone, email, etc)?
	Initial	Response
The responsible	party must undertake the following actions immedi	ately unless they could create a safety hazard that would result in injury
Released materials h All free liquids and r If all the actions describe N/A Per 19.15.29.8 B. (4) NN has begun, please attach	as been secured to protect human health a nave been contained via the use of berms of recoverable materials have been removed ed above have not been undertaken, explain the materials have been removed above have not been undertaken, explain the materials have been removed a narrative of actions to date. If remediate a narrative of actions to date.	or dikes, absorbent pads, or other containment devices. and managed appropriately.
I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Kyle Signature:	ormation given above is true and complete to a erequired to report and/or file certain release a ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger to OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws Title: SH&E Supervisor Date:3/3/2020 Telephone:
OCD Only		
Received by: Ramona	a Marcus	Date: 3/4/2020

Total Produced Water =

NRM2006432204

4.95 bbls

Location:	JRU DI 1 211H									
Spill Date:	2/18/2020									
	Area 1									
Approximate A	Approximate Area =									
	VOLUME RECOVERED									
Total Produced	Total Produced Water =									
	Area 2									
Approximate A	rea =	450.00	sq. ft.							
Average Satura	0.25	0.25 inches								
Average Porosi	0.03	0.03								
	VOLUME OF LEAK									
Total Produced	0.05	0.05 bbls								
	TOTAL VOLUME OF LEAK									
Total Produced	Water =	5.00	bbls							
	TOTAL VOLUME RECOVERED									

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State of New Mexico
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Oil Conservation Division

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 Incident ID
 NRM2006432204

 District RP
 Facility ID

Application ID

Site Assessment/Characterization

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

This information must be provided to the appropriate district office no later than 20 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?	X Yes I∑l 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil					
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.						

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.

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	1 1180 20 0) 12
Incident ID	NRM2006432204
District RP	
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:10/7/20					
email:Kyle_Littrell@xtoenergy.com	Telephone:					
OCD Only						
Received by: Cristina Eads	Date:10/09/2020					

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From C-141 State of New Mexico
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ID NRM2006432204

Incident ID NRM2006432204

District RP
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 19.15.29.1 ☑ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be conjugate to the second se	firmed as part of any request for deferral of remediation.
☑ Contamination must be in areas immediately under or around prodeconstruction.	oduction 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	the environment, or groundwater.
which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local latest Kyle Littrell Printed Name: Kyle_Littrell@xtoenergy.com Expression of the environment of the environment. The acceptar liability investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local latest liability investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local latest liability investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local latest liability investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local latest liability investigate water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local latest liability investigate water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local latest liability investigate water, water latest liability investigate wat	ertain release notifications and perform corrective actions for releases ace of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, cceptance of a C-141 report does not relieve the operator of
OCD Only	
Received by: Cristina Eads	Date: 10/09/2020
Approved with Attached Conditions of A	Approval
Signature: Juliu 2	Date: 12/10/2020



LT Environmental, Inc.

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

October 7, 2020

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

RE: Remediation Work Plan

James Ranch Unit Drilling Island -1

XTO Energy, Inc.

Incident Numbers NRM2006432204, NRM2011445697, NRM2011535196,

NRM2011559899

Eddy County, New Mexico

To Whom it May Concern:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following remediation workplan detailing remediation activities to date and a proposed workplan to address residual impacted soil at the James Ranch Unit Drilling Island-1 (JRU DI-1) (Site) resulting from four separate events that caused the release of produced water and/or crude oil at the Site. The Site is located in Units G and H, Section 21, Township 22 South, Range 30 East, in Eddy County, New Mexico (Figure 1). This proposed workplan summarizes planned remediation activities and is designed to address potential remaining impacts to soil in the subsurface.

RELEASE BACKGROUND

Below is a summary of each release at the Site.

NRM2006432204 - JRU DI 1 #211H

On February 18, 2020, a sand cut caused a release of produced water from a low torque valve. The release consisted of approximately 5 barrels (bbls) of produced water, 2.5 bbls of produced water released to a temporary containment and the remaining 2.5 bbls was released to the pad surface. A vacuum truck was dispatched to the Site and recovered an estimated 4.95 bbls. The release impacted approximately 450 square feet of well pad. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action (Form Form C-141 C-141) on March 3, 2020 and was assigned Incident Number NRM2006432204.



NRM2011445697 – JRU DI1 BS2A 7E 211H

On April 7, 2020 a hole in a fitting on the circulation pump formed due to sand, resulting in the release of approximately 10 bbls of produced water to a temporary lined containment. The temporary containment had a small hole which released 0.21 bbls of produced water to the pad surface. A vacuum truck was immediately dispatched to the Site and recovered 9.8 bbls of the produced water. The release impacted approximately 227 square feet of well pad. XTO reported the release to the NMOCD on a Form C-141 on April 21, 2020 and was assigned Incident Number NRM2011445697.

NRM2011535196 – JRU DI1 BS2A 7W 212H

On April 9, 2020 another hole formed in a fitting on the circulation pump due to sand, resulting in the release of an additional 10 bbls of produced water to a temporary lined containment. The temporary containment had a small hole which released an estimated 2 bbls of produced water to the pad surface. A vacuum truck was dispatched to the Site and recovered 9.7 bbls of the produced water. The release impacted approximately 342 square feet of well pad in the same area as Incident Number NRM2011445697. XTO reported the release to the NMOCD on a Form C-141 on April 23, 2020 and was assigned Incident Number NRM2011535196.

NRM2011559899- JRU DI1 BS1 3E 213H

On April 10, 2020, the liner on a sand bin began leaking during drill out operations resulting in the release of 6 bbls of produced water to the pad surface. A vacuum truck was dispatched to the Site and recovered 4 bbls of the produced water. The release impacted approximately 2,242 square feet of well pad. XTO reported the release to the NMOCD on a Form C-141 on April 24, 2020 and was assigned Incident Number NRM2011559899.

Delineation and remediation efforts were postponed due to the ongoing drilling, frac, and flowback operations at the Site. XTO provided regular operational updates ensuring remediation could begin as soon as all operations were complete at the Site. Per NMAC 19.15.29.12.B.(1), an extension for submission of a remediation plan or closure report was requested for all four releases, extending the deadline to October 9, 2020. In addition, XTO submitted a remediation work plan to NMOCD on April 23, 2020 detailing proposed remediation work on this pad for 12 legacy Remediation Permit Numbers (RPs) (2RP-2334, 2RP-2267, 2RP-2440, 2RP-2782, 2RP-3046, 2RP-3143, 2RP-3524, 2RP-3362, 2RP-3864, 2RP-4528, 2RP-4625, and 2RP-4756) and two Incident Numbers (NRM1935433078 and NRM2002747253). The work proposed in the April 23, 2020 Remediation Work Plan overlaps the release extents of the four incidents addressed in this Remediation Work Plan, and approval of the work plan from NMOCD is still pending.

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District 2 Page 3

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet bgs based on the nearest groundwater well data. The nearest permitted water well with depth to groundwater data is C-03015, located approximately 0.73 miles southeast of the Site. The water well has a depth to groundwater of 262 feet and a total depth of 1,316 feet. Ground surface elevation at the water well location is 3,283 feet above mean sea level (AMSL), which is approximately 114 feet higher in elevation than the Site. Referenced well records are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an intermittent wash located approximately 1,230 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). The Site receptors and nearby water wells are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES

Site assessment visits were attempted multiple times from the date of the release. LTE personnel attempted to visit the site on April 20, 2020, however, ongoing operations prohibited unnecessary personnel from being onsite. On September 16, 2020, LTE personnel were able to inspect the Site during a short break in the drilling schedule to evaluate the release extents based on information provided on the Form C-141 and visual observations.

NRM2006432204 - JRU DI 1 #211H

LTE personnel collected one preliminary soil sample (SS01) at a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. Preliminary soil sample SS01 was collected from within the release extent.



NRM2011445697 – JRU DI1 BS2A 7E 211H AND NRM2011535196 – JRU DI1 BS2A 7W 212H

LTE personnel collected three preliminary soil samples (SS01 through SS03) at a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. Preliminary soil samples SS01 through SS03 were collected from within the release extent.

NRM2011559899- JRU DI1 BS1 3E 213H

LTE personnel collected three preliminary soil samples (SS01 through SS04) at a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. Preliminary soil samples SS01 through SS04 were collected from within the release extent.

Soil from all preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extents and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photo documentation of the releases was conducted, and a photographic log of the Site is included as Attachment 2.

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

Laboratory analytical results for preliminary soil sample SS03 (NRM2011445697 and NRM2011535196), indicated TPH concentrations exceed Closure Criteria and will require additional remediation. In addition, laboratory analytical results for all preliminary soil samples collected at the Site indicate chloride concentrations exceed Closure Criteria and require additional remediation. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Attachment 3.

PROPOSED WORK PLAN

As depicted in Figure 3, the release extents of the four incidents overlap portions of the proposed excavation and liner installation activities proposed in the Remediation Work Plan submitted on April 23, 2020. The Remediation Work Plan submitted on April 23, 2020 addresses 14 releases on the pad that occurred from April 14, 2014 through November 27, 2019. An estimated 33,250 cubic yards of impacted soil are anticipated to be removed from several excavations on the pad. In addition, XTO and LTE propose to install two liners totaling approximately 77,450 square feet of pad. Due to the amount of work and location of the excavations and liner installations, XTO



and LTE believe it is prudent to complete the work needed for the 4 releases addressed in this work plan simultaneously with the scope outlined in the April 23, 2020 Remediation Work Plan. LTE proposes to remediate the chloride impacts in a single effort by following the April 23, 2020 Remediation Work Plan which includes the following:

- Full delineation of the Site to the strictest Table 1 Closure Criteria;
- Excavation of impacted soils in the proposed locations depicted on Figure 3;
- Installation of a liner at 4 feet bgs in the proposed locations depicted on Figure 3; and
- Backfill of the excavations with non-waste containing caliche or soil.

Some areas of the four incidents, NRM2006432204, NRM2011445697, NRM2011535196, NRM2011559899, are not covered by this proposed work. To address these areas, LTE and XTO propose to collect additional delineation soil samples at the locations indicated on Figure 3 to vertically delineate the impacted soil to the strictest Table 1 Closure Criteria. Following delineation activities, LTE will incorporate findings into the previously proposed excavation plan. LTE personnel will direct all excavations using field screenings and laboratory results until laboratory analytical results indicate confirmation samples are compliant with the applicable Closure Criteria. If impacted soil is identified greater than 4 feet bgs in depth, the proposed impermeable liner installation at 4 feet bgs will be extended to address residual chloride in the subsurface and the excavation will be backfilled with non-waste containing caliche or soil. The anticipated additional excavation extents are depicted on Figure 3.

XTO and LTE believe this work will address the impacts identified in the preliminary soil samples from Incident Numbers NRM2006432204, NRM2011445697, NRM2011535196, NRM2011559899 and will be more efficient than addressing these releases separately from the remediation plan outlined in the April 23, 2020 Remediation Work Plan.

CONFIRMATION SAMPLING VARIANCE REQUEST

The April 23, 2020 Remediation Work Plan includes a request for a variance of the 200-square foot confirmation sampling requirement for the areas to be excavated, which would require an estimated 378 floor samples within the estimated excavation extents with no liner. This estimation includes the twelve RP Numbers, two Incident Numbers addressed in the April 23, 2020 Remediation Work plan and the four Incident Numbers included in this work plan. These numbers do not include sidewalls. Due to the aerial extents of the affected areas, LTE proposes increasing the confirmation sampling size to a 1,000-square foot area for floor samples and a 500-square foot area for sidewall samples, utilizing a 5-point composite sample to represent each excavation confirmation sample. An estimated 76 samples would be collected from the excavation floor with no liner, to address the excavation extents.



SCHEDULE

Delineation and excavation of impacted soil will begin immediately following the NMOCD approval of the April 23, 2020 Remediation Work Plan. Confirmation soil sampling will be conducted once excavation activities are completed as determined by ongoing field screening of soil. XTO will provide NMOCD with a report documenting delineation and remediation activities within three weeks of receipt of final laboratory analytical results.

LTE appreciates the opportunity to provide this remediation work plan request to the NMOCD. If you have any questions or comments, please do not hesitate to contact Ashley L. Ager at (970) 946-1093 or aager@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Moursey

Tacoma Morrissey

Project Geologist

Ashley L. Ager, P.G.

ashley L. ager

Senior Geologist

Attachments:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations

Figure 3 Proposed Excavation and Liner Extents

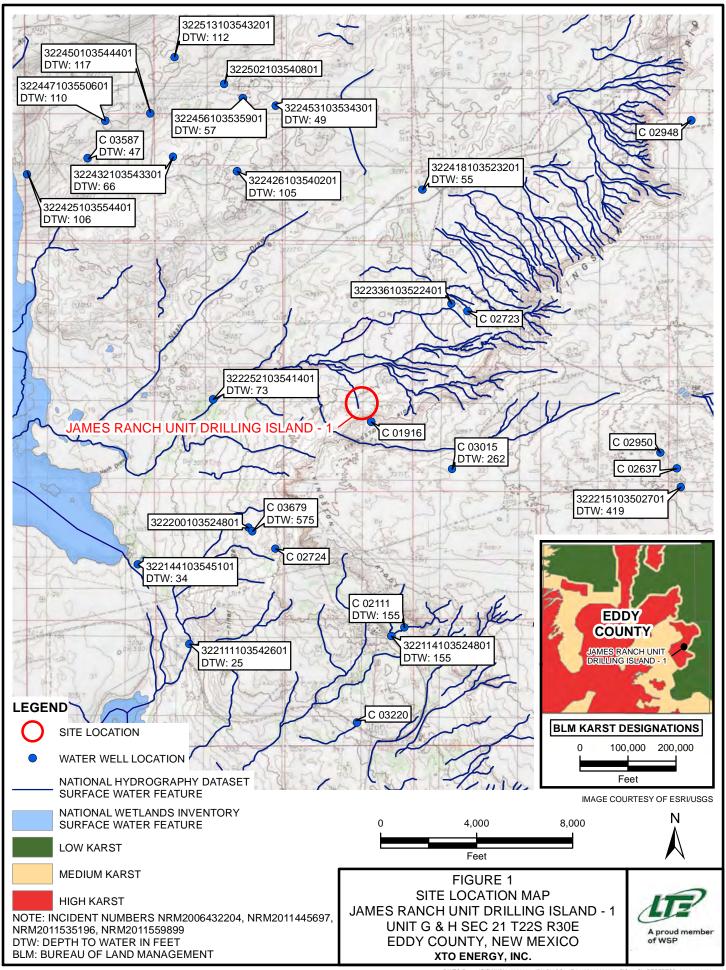
Table 1 Soil Analytical Results

Attachment 1 Referenced Well Records

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports







RELEASE LOCATION (NRM2006432204)

- RELEASE LOCATION (NRM2011445697/ NRM2011535196)
- RELEASE LOCATION (NRM2011559899)
- PRELIMINARY SOIL SAMPLE ASSOCIATED WITH INCIDENT NUMBER NRM2006432204
- PRELIMINARY SOIL SAMPLE ASSOCIATED WITH INCIDENT NUMBERS NRM2011445697 & NRM2011535196
- PRELIMINARY SOIL SAMPLE ASSOCIATED WITH INCIDENT NUMBER NRM2011559899
- RELEASE EXTENT

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: INCIDENT NUMBERS NRM2006432204, NRM2011445697, NRM2011535196, NRM2011559899





FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
JAMES RANCH UNIT DRILLING ISLAND - 1
UNIT G & H SEC 21 T22S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



P:\XTO Energy\GIS\MXD\012920067_JRU DI1 BS1 3E 213H\012920067_FIG02_PRELIMINARY_2020.mx

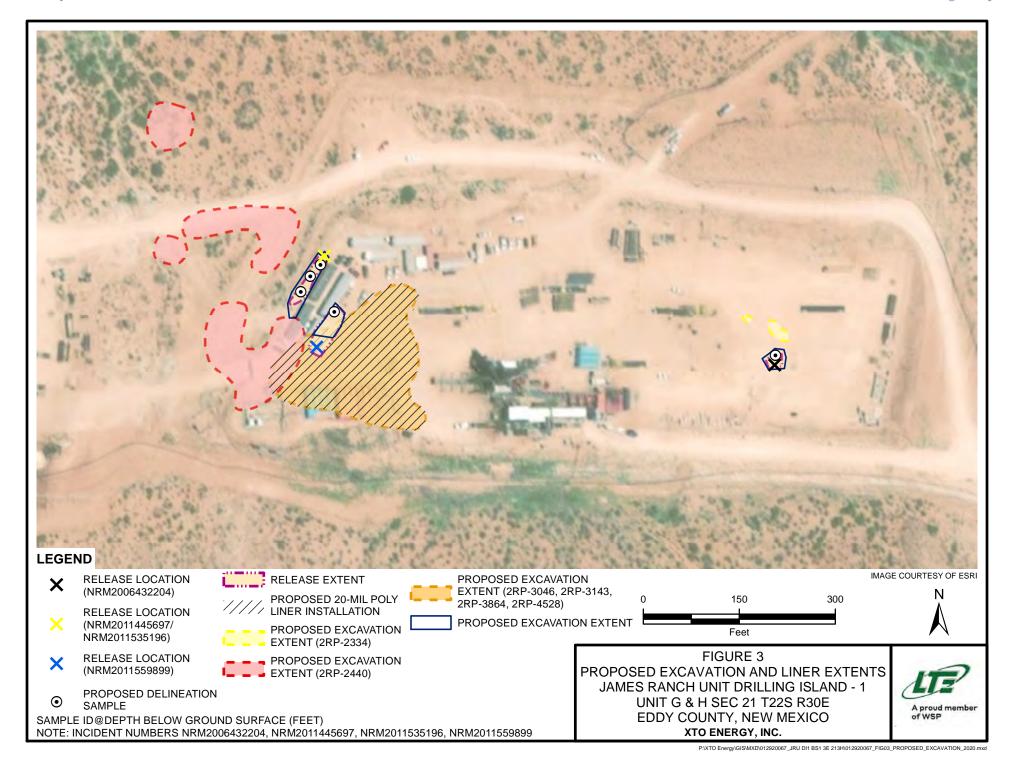




TABLE 1 SOIL ANALYTICAL RESULTS

JAMES RANCH UNIT DRILLING ISLAND-1 INCIDENT NUMBERS NRM2006432204, NRM2011445697, NRM2011535196, NRM2011559899 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 Criteria		10	NE	NE	NE	50	NE	NE	NE	NE	100	600	
JRU DI 1 #211H (NRM2006432204)													
SS01	0.5	9/16/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	3,920
JRU DI1 BS2A 7E 211H and JRU DI1 BS2A 7W 212H (NRM2011445697 and NRM2011535196)													
SS01	0.5	9/16/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	15,100
SS02	0.5	9/16/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	66.3	<49.9	66.3	66.3	8,060
SS03	0.5	9/16/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	461	60.9	461	522	11,600
					JRU D	11 BS1 3E 213H	H (NRM201155	9899)					
SS01	0.5	9/16/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	7,560
SS02	0.5	9/16/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	25,500
SS03	0.5	9/16/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	13,100
SS04	0.5	9/16/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	83.3	<50.0	83.3	83.3	16,300

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

ORO - 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







Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 02111

2 33 22S 30E

605505 3580336*



Driller License:

Driller Company:

Driller Name:

WINSTON BROS.

Drill Start Date:

Drill Finish Date:

11/30/1962

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 29 GPM

Casing Size:

Depth Well:

248 feet **Depth Water:** 155 feet

Meter Number:

552

Meter Make:

SENSUS

Meter Serial Number:

8.75

1480245

Meter Multiplier:

100.0000

Number of Dials:

Meter Type:

Diversion

Unit of Measure: Usage Multiplier: Gallons

Return Flow Percent:

Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
12/31/1998	1999	3519	A	ms	0
06/30/1999	1999	10119	A	ms	2.025
09/30/1999	1999	17046	A	ms	2.126
01/12/2000	1999	23122	A	ms	1.865
03/31/2000	2000	29277	A	mb	1.889
06/30/2000	2000	38063	A	RPT	2.696
09/30/2000	2000	45705	A	RPT	2.345
12/31/2000	2000	53709	A	RPT	2.456
03/31/2001	2001	61935	A	RPT	2.524
06/30/2001	2001	63804	A	RPT	0.574
10/01/2001	2001	63804	A	RPT	0
01/01/2002	2001	3924	R	RPT Meter Rollover	12.312
04/23/2002	2002	12315	A	RPT	2.575
07/01/2002	2002	12571	A	rm	0.079
01/01/2003	2002	14740	A	RPT	0.666
01/01/2004	2003	14740	A	ab	0
04/01/2004	2004	14740	A	RPT	0
10/30/2004	2004	14740	A	RPT	0
03/31/2005	2005	14740	A	RPT	0
10/30/2005	2005	14740	A	RPT	0
12/31/2005	2005	14740	A	RPT	0
07/07/2006	2006	14740	A	tw	0
11/01/2006	2006	14740	A	RPT	0
06/30/2007	2007	14740	A	RPT	0
09/30/2007	2007	14740	A	RPT	0

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10/2/20 8:46 AM

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

22

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

22S 606099 3582353*

Driller License: 331

C 03015

Driller Company:

SBQ2, LLC DBA STEWART BROTHERS DRILLING

CO.

Driller Name: Drill Start Date:

01/21/2004

Drill Finish Date:

01/25/2004

1316 feet

Plug Date:

Depth Water:

Artesian

Log File Date:

03/04/2004

PCW Rcv Date:

Depth Well:

Source:

Pump Type: Casing Size: Pipe Discharge Size:

Estimated Yield:

262 feet

Water Bearing Stratifications:

6.00

Top Bottom Description

362 385 Other/Unknown

Casing Perforations:

Top **Bottom**

261 386

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10/2/20 7:59 AM

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Se

Q64 Q16 Q4 Sec Tws Rng

X

C 03587 POD3

2 4 1 07 22S 29E

601447 3586271

4

Driller License: 1348

Driller Company:

TAYLOR WATER WELL SERVICE

Driller Name:

TAYLOR, CLINTON E. (LD)

04/04/2013

Drill Finish Date:

04/04/2013

Plug Date:

Drill Start Date: Log File Date:

05/07/2013

PCW Rcv Date:

Source:

Shallow

Pumn Tyne:

5/07/2013

PCW Rcv Date:

Depth Well:

Source.

Shanow

Pump Type: Casing Size:

Pipe Discharge Size:

Estimated Yield:
Depth Water:

3 GPM 47 feet

Water Bearing Stratifications:

2.00

65 80 Other/Unknown

80 feet

Top Bottom Description

Casing Perforations:

Top Bottom

65 80

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10/2/20 8:45 AM



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 03679 POD1

2 14 24S 33E

Driller License: 1654 **Driller Company:**

NOT WORKING FOR HIRE--SIRMAN DRILLING

3581547

AND CONSTRUC

Driller Name: Drill Start Date:

10/23/2013

Drill Finish Date:

10/29/2013

Plug Date:

Log File Date:

11/07/2013

PCW Rcv Date:

Shallow

Pipe Discharge Size:

Source:

603567

Estimated Yield: 20 GPM

Pump Type: **Casing Size:**

6.00

Depth Well:

700 feet

Depth Water:

575 feet

Water Bearing Stratifications:

Top Bottom Description

565

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom 560

620

700 660

Meter Number:

16576

Meter Make:

MASTERMETER

Meter Serial Number: 8112524

Gallons

Meter Multiplier:

100.0000

Number of Dials:

6

Meter Type:

Diversion

Unit of Measure:

Return Flow Percent:

Usage Multiplier: Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year M	Atr Reading	Fla	g Rdr Comment	Mtr Amount
03/01/2014	2014	29030	A	RPT	0
07/01/2014	2014	49261	A	RPT	6.209
10/01/2014	2014	68901	A	RPT	6.027
12/31/2014	2014	84036	A	RPT	4.645
02/01/2015	2015	89806	A	RPT	1.771
03/02/2015	2015	92350	A	RPT	0.781
04/01/2015	2015	96582	A	RPT	1.299
04/30/2015	2015	104711	A	RPT	2.495
05/31/2015	2015	111086	A	RPT	1.956
07/01/2015	2015	118700	A	RPT	2.337
08/01/2015	2015	123816	A	RPT	1.570
08/31/2015	2015	130025	A	RPT	1.905
10/01/2015	2015	135622	A	RPT	1.718
**YTD Met	er Amount	s: Year		Amount	
		2014		16.881	
		2015		15.832	

Received by OCD: 12/10/2020 11:585.57 PM ortDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=C&nbr=0367 Page 43 of 123

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10/2/20 8:44 AM



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i	ISCS	Water	Resources
ч	1343	vvalle:	nesuui ces

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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site_no list =

• 322450103544401

Minimum number of levels = 1

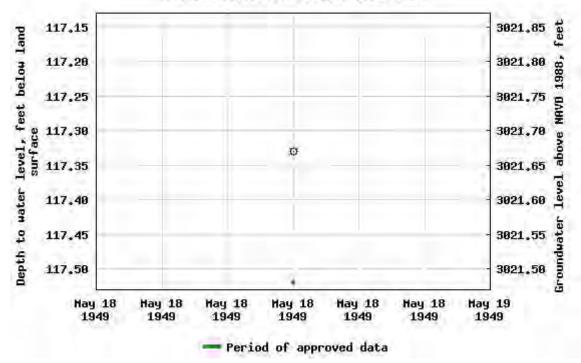
Save file of selected sites to local disk for future upload

USGS 322450103544401 22S.30E.06.444222

		=: 1:	1		
Available data for this site	Groundwater:	Field measurements		GO	
Eddy County, New Mexico					
Hydrologic Unit Code 1306	0011				
Latitude 32°24'50", Longi	tude 103°5	4'44" NAD27			
Land-surface elevation 3,1	39 feet abo	ve NAVD88			
This well is completed in th	ne Rust <mark>l</mark> er F	ormation (312RS	LR) I	ocal aqı	ıifer.

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

USGS 322450103544401 225,30E,06,444222



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

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0.6 0.55 nadww01





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HSGS	Water	Resources	c

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Groundwater	~	United States	~	GO

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site_no list =

• 322453103534301

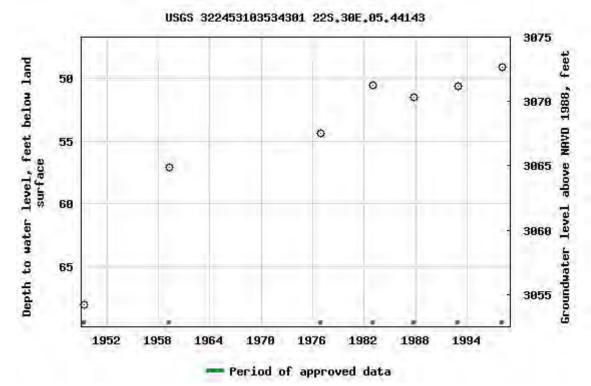
Minimum number of levels = 1

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USGS 322453103534301 22S.30E.05.44143

Available data for this site	Groundwater:	Field measurements	V GO
Available data for tills site	Olouliuwater.	i leid illeasurements	¥ 00
Eddy County, New Mexico			
Hydrologic Unit Code 1306	50011		
Latitude 32°24'53", Longi	tude 103°5	3'43" NAD27	
Land-surface elevation 3,1	.22 feet abo	ve NAVD88	
This well is completed in tl	he Rust <mark>l</mark> er F	ormation (312RS	SLR) local aquifer.

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0.67 0.57 nadww01





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Groundwater	~	United States	~	GO

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site_no list =

• 322456103535901

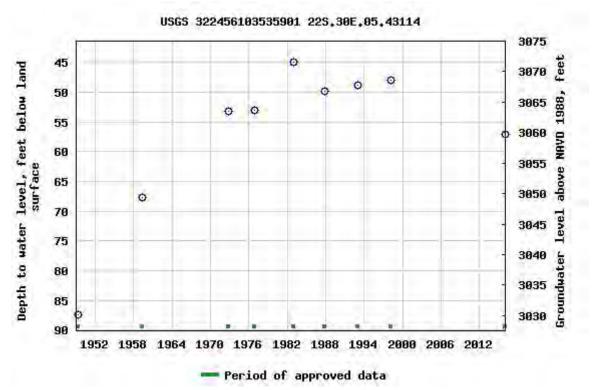
Minimum number of levels = 1

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USGS 322456103535901 22S.30E.05.43114

Available data for this site	Groundwater:	Field measurements	~	GO]	
Eddy County, New Mexico					
Hydrologic Unit Code 1306	50011				
Latitude 32°24'56", Longi	tude 103°5	3'59" NAD27			
Land-surface elevation 3,1	17 feet abo	ve NAVD88			
The depth of the well is 22	5 feet belov	v land surface.			
This well is completed in tl	ne Rustler F	ormation (312RS	LR) l	local a	aquifer.

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0.79 0.57 nadww01





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site_no list =

• 322513103543201

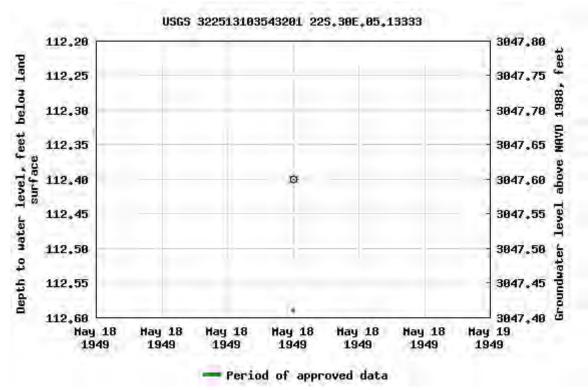
Minimum number of levels = 1

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USGS 322513103543201 22S.30E.05.13333

Available data for this site	Croundwater	Field measurements	14 60
Available data for this site	Groundwater:	Field measurements	GO
Eddy County, New Mexico			
Hydrologic Unit Code 1306	50011		
Latitude 32°25'13", Longi	tude 103°5	4'32" NAD27	
Land-surface elevation 3,1	.60 feet abo	ve NAVD88	
This well is completed in t	he Rustler F	ormation (312RS	SLR) local aquifer.

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Groundwater	~	United States	~	GO

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site_no list =

• 322425103554401

Minimum number of levels = 1

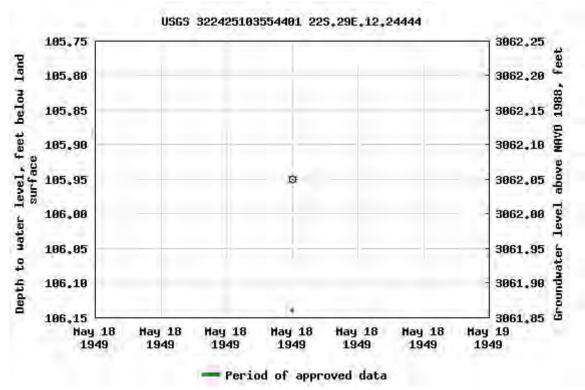
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USGS 322425103554401 22S.29E.12.24444

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°24'25", Longitude 103°55'44" NAD27
Land-surface elevation 3,168 feet above NAVD88
The depth of the well is 250 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

<u>Table of data</u>	
<u>Tab-separated data</u>	
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0.61 0.56 nadww01





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Groundwater	~	United States	~	GO

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site_no list =

• 322426103540201

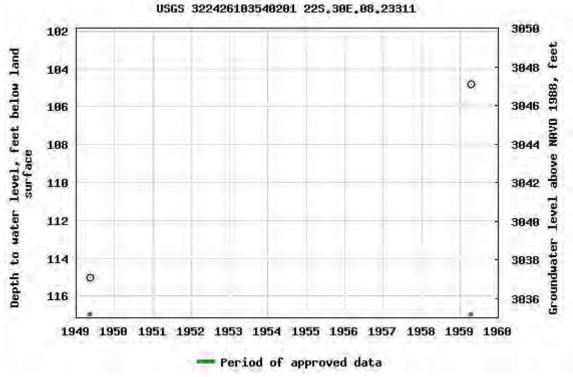
Minimum number of levels = 1

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USGS 322426103540201 22S.30E.08.23311

Available data for this site	Groundwater: Field measurements	✓ GO
Eddy County, New Mexico		
Hydrologic Unit Code 1306	50011	
Latitude 32°24'26", Longi	tude 103°54'02" NAD27	
Land-surface elevation 3,1	52 feet above NAVD88	
The depth of the well is 18	31 feet below land surface.	
This well is completed in the	he Rustler Formation (312RS	LR) local aquifer

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0.65 0.6 nadww01





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Groundwater	~	United States	~	GO

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site_no list =

• 322432103543301

Minimum number of levels = 1

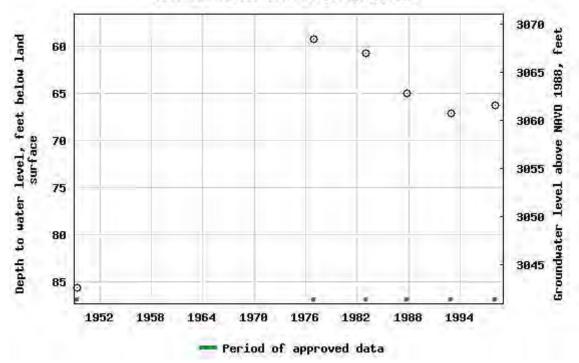
Save file of selected sites to local disk for future upload

USGS 322432103543301 22S.30E.07.242224

Available data for this site	Groundwater:	Field measurements	~	GO	
Eddy County, New Mexico					
Hydrologic Unit Code 1306	0011				
Latitude 32°24'32", Longi	tude 103°5	4'33" NAD27			
Land-surface elevation 3,1	28 feet abo	ve NAVD88			
The depth of the well is 17	6 feet belov	w land surface.			
This well is completed in tl	าe Rustler F	ormation (312RS	LR) I	ocal aquifer	

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

USGS 322432103543301 225,30E,07,242224



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0.66 0.57 nadww01





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Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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site_no list =

• 322447103550601

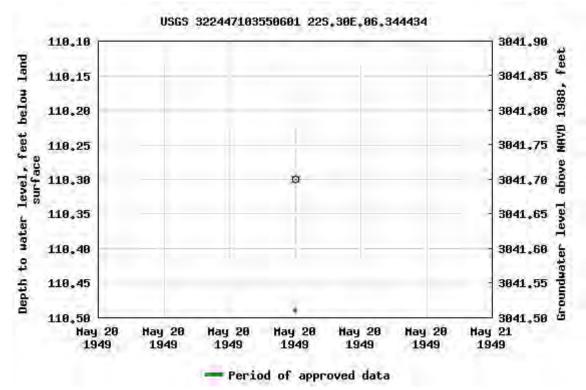
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322447103550601 22S.30E.06.344434

Available data for this site	Groundwater:	Field measurements	∨ GO
Eddy County, New Mexico			
Hydrologic Unit Code 1306	50011		
Latitude 32°24'47", Longi	tude 103°5	5'06" NAD27	
Land-surface elevation 3,1	.52 feet abo	ve NAVD88	
This well is completed in tl	he Rustler F	formation (312RS	LR) local aquifer.
	_	_	

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



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URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

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0.62 0.57 nadww01





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

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site_no list =

• 322111103542601

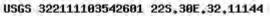
Minimum number of levels = 1

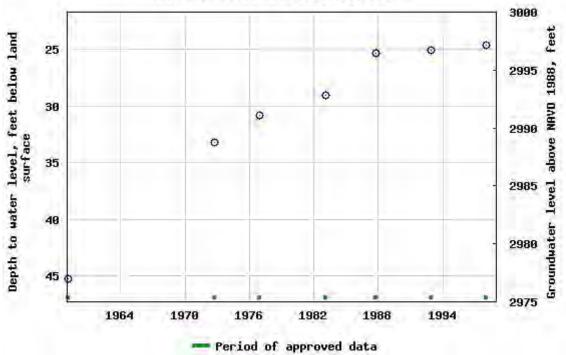
Save file of selected sites to local disk for future upload

USGS 322111103542601 22S.30E.32.11144

Available data for this site	Groundwater:	Field measurements	~	GO
Eddy County, New Mexico				
Hydrologic Unit Code 1306	0011			
Latitude 32°21'11", Longi	tude 103°5	4'26" NAD27		
Land-surface elevation 3,0	22 feet abo	ve NAVD88		
The depth of the well is 10	7 feet belov	w land surface.		
This well is completed in tl	าe Rustler F	formation (312RS	LR) I	ocal aquifer.

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





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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-10-02 10:56:10 EDT

0.63 0.57 nadww01





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 322114103524801

Minimum number of levels = 1

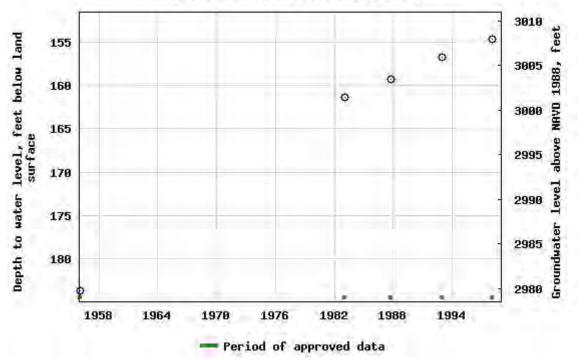
Save file of selected sites to local disk for future upload

USGS 322114103524801 22S.30E.33.212243

Available data for this site	Groundwater:	Field measurements	~	GO]	
Eddy County, New Mexico					
Hydrologic Unit Code 1306	50011				
Latitude 32°21'14", Longi	tude 103°5	2'48" NAD27			
Land-surface elevation 3,1	.63 feet abo	ve NAVD88			
The depth of the well is 24	8 feet belov	w land surface.			
This well is completed in tl	ne Rustler F	ormation (312RS	LR) I	local a	aquifer.

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





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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-10-02 10:55:38 EDT

1.5 0.6 nadww01





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Search Results -- 1 sites found

site_no list =

• 322144103545101

Minimum number of levels = 1

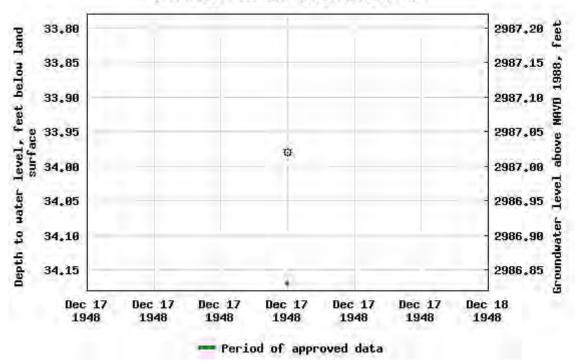
Save file of selected sites to local disk for future upload

USGS 322144103545101 22S.30E.30.234431

Available data for this site	Groundwater:	Field measurements	~][GO
Eddy County, New Mexico				
Hydrologic Unit Code 1306	50011			
Latitude 32°21'44", Longi	tude 103°5	4'51" NAD27		
Land-surface elevation 3,0	21 feet abo	ve NAVD88		
The depth of the well is 75	feet below	land surface.		
This well is completed in tl	ne Rustler F	formation (312RS	LR) lo	ocal aquifer.

<u>Table of data</u>
<u>Tab-separated data</u>
<u>Graph of data</u>
Reselect period

USGS 322144103545101 225,30E,30,234431



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

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-10-02 10:54:07 EDT

0.65 0.56 nadww01





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 322215103502701

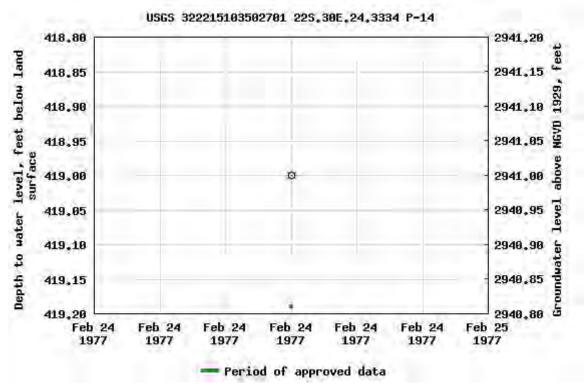
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322215103502701 22S.30E.24.3334 P-14

Available data for this site	Groundwater:	Field measurements	~	GO
Eddy County, New Mexico				
Hydrologic Unit Code 1306	0011			
_atitude 32°22'15", Longi	tude 103°5	0'27" NAD27		
_and-surface elevation 3,3	60 feet abo	ve NGVD29		
	0	utnut formats		

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



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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-10-02 10:53:20 EDT

0.75 0.6 nadww01





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Search Results -- 1 sites found

site_no list =

• 322252103541401

Minimum number of levels = 1

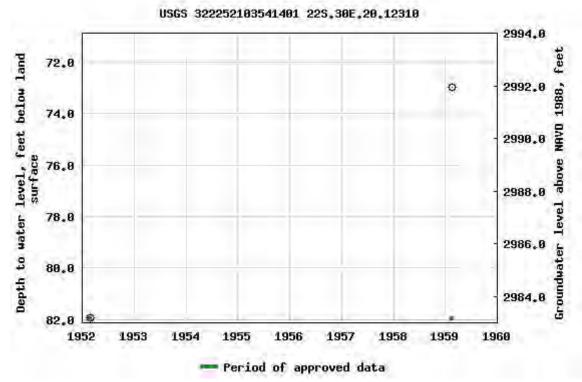
Save file of selected sites to local disk for future upload

USGS 322252103541401 22S.30E.20.12310

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°22'52", Longitude 103°54'14" NAD27
Land-surface elevation 3,065 feet above NAVD88
The depth of the well is 129 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

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



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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-10-02 10:52:25 EDT

0.8 0.58 nadww01





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

322418103523201

Minimum number of levels = 1

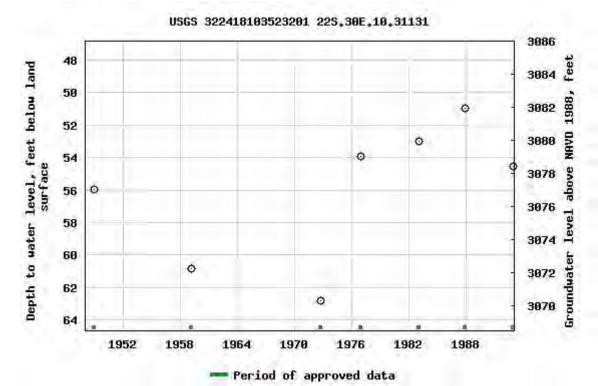
Save file of selected sites to local disk for future upload

USGS 322418103523201 22S.30E.10.31131

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°24'18", Longitude 103°52'32" NAD27
Land-surface elevation 3,133 feet above NAVD88
The depth of the well is 77 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

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



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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-10-02 10:51:35 EDT

0.68 0.57 nadww01





PHOTOGRAPHIC LOG



Photograph 1: View of JRU DI-1 BS1 3E 213H release along western edge of pad facing North.



Photograph 3: View of JUR DI1 211H release and preliminary sampling location facing North.



Photograph 2: View of JRU DI-1 BS1 3E 213H release along western edge of pad facing Southwest.



Photograph 4: View of JUR DI1 211H release and preliminary sampling location facing Northeast.

James Ranch Unit Drilling Island - 1
Remediation Work Plan
Incident Numbers NRM2006432204, NRM2011445697,
NRM2011535196, NRM2011559899
Photographs Taken: April 20, 2020 through September 16, 20202

Page 1 of 2



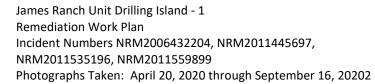
PHOTOGRAPHIC LOG



Photograph 5: View of JRU DI1 BS2A 7W 212H release along western edge of pad facing North.



Photograph 6: View of JRU DI1 BS2A 7W 212H release along western edge of pad facing West.







eurofins Environment Testing

Certificate of Analysis Summary 672768

LT Environmental, Inc., Arvada, CO

Project Name: JRU DI1 211H

Project Id: Contact:

012920101 Dan Moir

Date Received in Lab: Wed 09.16.2020 16:15

Report Date: 09.17.2020 14:23

Project Location:

Eddy County

Project Manager: Jessica Kramer

Lah Id:	672768-001					
_						
Matrix:	SOIL					
Sampled:	09.16.2020 11:30					
Extracted:	09.16.2020 18:19					
Analyzed:	09.17.2020 01:20					
Units/RL:	mg/kg RL					
	<0.00200 0.00200					
	<0.00200 0.00200					
	<0.00200 0.00200					
	<0.00401 0.00401					
	<0.00200 0.00200					
	<0.00200 0.00200					
	< 0.00200 0.00200					
Extracted:	09.16.2020 17:00					
Analyzed:	09.16.2020 20:25					
Units/RL:	mg/kg RL					
	3920 200					
Extracted:	09.16.2020 17:30					
Analyzed:	09.17.2020 02:36					
Units/RL:	mg/kg RL					
	<50.1 50.1					
	<50.1 50.1					
	<50.1 50.1					
	<50.1 50.1					
	<50.1 50.1					
	Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: SS01 Depth: 0.5- ft Matrix: SOIL Sampled: 09.16.2020 11:30 Extracted: 09.16.2020 18:19 Analyzed: 09.17.2020 01:20 Units/RL: mg/kg RL <0.00200	Field Id: SS01 Depth: 0.5- ft Matrix: SOIL Sampled: 09.16.2020 11:30 Extracted: 09.16.2020 18:19 Analyzed: 09.17.2020 01:20 Units/RL: mg/kg RL <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00401 0.00401 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 Extracted: 09.16.2020 17:00 Analyzed: 09.16.2020 20:25 Units/RL: mg/kg RL 3920 200 Extracted: 09.16.2020 17:30 Analyzed: 09.17.2020 02:36 Units/RL: mg/kg RL <0.00200 0.00200 Extracted: 09.17.2020 02:36 Units/RL: mg/kg RL	Field Id: SS01 Depth: 0.5- ft Matrix: SOIL Sampled: 09.16.2020 11:30 Extracted: 09.17.2020 01:20 Units/RL: mg/kg RL <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00401 0.00401 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 Extracted: 09.16.2020 17:00 Analyzed: 09.16.2020 20:25 Units/RL: mg/kg RL 3920 200 Extracted: 09.16.2020 17:30 Analyzed: 09.17.2020 02:36 Units/RL: mg/kg RL <0.00200 0.00200 Extracted: 09.17.2020 02:36 Units/RL: mg/kg RL <0.00200 0.00200 <0.00200 0.00200 Extracted: 09.16.2020 17:30 Analyzed: 09.17.2020 02:36 Units/RL: mg/kg RL <0.00200 0.00200 Extracted: 09.17.2020 02:36	Field Id: SS01 Depth: 0.5- ft Matrix: SOIL Sampled: 09.16.2020 11:30	Field Id: SS01 Depth: 0.5- ft Matrix: SOIL Sampled: 09.16.2020 11:30 Extracted: 09.16.2020 18:19 Analyzed: 09.17.2020 01:20 Units/RL: mg/kg RL -0.00200 0.00200 -0.00200 0.00

BRL - Below Reporting Limit

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

Jessica Weamer



Analytical Report 672768

for

LT Environmental, Inc.

Project Manager: Dan Moir

JRU DI1 211H 012920101 09.17.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

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



09.17.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 672768

JRU DI1 211H

Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 672768. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 672768 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Veramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 672768

LT Environmental, Inc., Arvada, CO

JRU DI1 211H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	09.16.2020 11:30	0.5 ft	672768-001

CASE NARRATIVE

eurofins
Environment Testing
Xenco

Client Name: LT Environmental, Inc.

Project Name: JRU DI1 211H

 Project ID:
 012920101
 Report Date:
 09.17.2020

 Work Order Number(s):
 672768
 Date Received:
 09.16.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 672768

LT Environmental, Inc., Arvada, CO

JRU DI1 211H

Sample Id: **SS01**

Matrix: Soil Date Received:09.16.2020 16:15

Lab Sample Id: 672768-001

Date Collected: 09.16.2020 11:30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep: 09.16.2020 17:00 % Moisture: Basis:

Wet Weight

Seq Number: 3137358

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3920	200	mg/kg	09.16.2020 20:25		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH Date Prep: 09.16.2020 17:30 Basis: Wet Weight

Seq Number: 3137360

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.17.2020 02:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.17.2020 02:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.17.2020 02:36	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.17.2020 02:36	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.17.2020 02:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	74	%	70-135	09.17.2020 02:36		
o-Terphenyl		84-15-1	70	%	70-135	09.17.2020 02:36		

Certificate of Analytical Results 672768

LT Environmental, Inc., Arvada, CO

JRU DI1 211H

Sample Id:

SS01

Matrix:

Soil

Date Received:09.16.2020 16:15

Lab Sample Id: 672768-001

Date Collected: 09.16.2020 11:30

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

% Moisture:

Tech: Analyst: MAB MAB

Date Prep:

09.16.2020 18:19

Basis:

Wet Weight

Seq Number: 3137354

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.17.2020 01:20	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.17.2020 01:20	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.17.2020 01:20	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.17.2020 01:20	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.17.2020 01:20	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.17.2020 01:20	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.17.2020 01:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	09.17.2020 01:20		
1.4-Difluorobenzene		540-36-3	104	%	70-130	09.17.2020 01:20		



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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting 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

DLMethod 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

Flag

Flag

QC Summary 672768

LT Environmental, Inc.

JRU DI1 211H

Analytical Method: Chloride by EPA 300

Seq Number: 3137358

Matrix: Solid

LCS Sample Id: 7711443-1-BKS

E300P Prep Method:

Date Prep: 09.16.2020

LCSD Sample Id: 7711443-1-BSD

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

Chloride <10.0 250 257 103 257 90-110 0 20 09.16.2020 18:24 103 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3137358

Matrix: Soil

Prep Method: Date Prep: 09.16.2020

Limit

E300P

Date

Parent Sample Id:

MB Sample Id:

672664-011

Result

7711443-1-BLK

672664-011 S MS Sample Id:

MSD Sample Id: 672664-011 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter**

Result

Amount %Rec Result %Rec 20 09.16.2020 18:41 Chloride <9.96 199 207 104 206 104 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3137358

Prep Method:

E300P

Matrix: Soil

Date Prep:

09.16.2020

MS Sample Id: 672664-021 S MSD Sample Id: 672664-021 SD Parent Sample Id: 672664-021

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 0 20 09.16.2020 19:57 <9.98 200 205 103 205 103 90-110 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

3137360

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 09.16.2020

MB Sample Id: 7711446-1-BLK LCS Sample Id: 7711446-1-BKS LCSD Sample Id: 7711446-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 09.16.2020 22:14 < 50.0 795 798 35 1000 80 80 70-135 0 mg/kg 09.16.2020 22:14 Diesel Range Organics (DRO) 859 851 85 70-135 35 < 50.0 1000 86 1 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Flag Date %Rec 09.16.2020 22:14 1-Chlorooctane 117 98 98 70-135 % 09.16.2020 22:14 o-Terphenyl 110 87 86 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3137360

Matrix: Solid

Prep Method: Date Prep: SW8015P 09.16.2020

MB Sample Id: 7711446-1-BLK

Parameter

MBResult

Units

Analysis Date

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

09.16.2020 21:54

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 = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

QC Summary 672768

LT Environmental, Inc.

JRU DI1 211H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137360

Parent Sample Id:

672640-003

Matrix: Soil

MS Sample Id: 672640-003 S

SW8015P Prep Method:

09.16.2020 Date Prep:

MSD Sample Id: 672640-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	733	73	717	72	70-135	2	35	mg/kg	09.16.2020 23:14
Diesel Range Organics (DRO)	< 50.2	1000	766	77	739	74	70-135	4	35	mg/kg	09.16.2020 23:14

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		117		70-135	%	09.16.2020 23:14
o-Terphenyl	108		105		70-135	%	09.16.2020 23:14

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137354

MB Sample Id: 7711468-1-BLK Matrix: Solid

Prep Method:

SW5035A

Date Prep: 09.16.2020

LCS Sample Id: 7711468-1-BKS LCSD Sample Id: 7711468-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.116	116	0.115	115	70-130	1	35	mg/kg	09.16.2020 22:10
Toluene	< 0.00200	0.100	0.109	109	0.109	109	70-130	0	35	mg/kg	09.16.2020 22:10
Ethylbenzene	< 0.00200	0.100	0.101	101	0.101	101	71-129	0	35	mg/kg	09.16.2020 22:10
m,p-Xylenes	< 0.00400	0.200	0.205	103	0.205	103	70-135	0	35	mg/kg	09.16.2020 22:10
o-Xylene	< 0.00200	0.100	0.101	101	0.101	101	71-133	0	35	mg/kg	09.16.2020 22:10
		1 m	_	~~ •			* 60				

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		99		70-130	%	09.16.2020 22:10
4-Bromofluorobenzene	88		92		85		70-130	%	09.16.2020 22:10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137354 Matrix: Soil

SW5035A Prep Method: Date Prep: 09.16.2020

MS Sample Id: 672769-001 S Parent Sample Id: 672769-001 MSD Sample Id: 672769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.102	101	0.106	105	70-130	4	35	mg/kg	09.16.2020 22:55	
Toluene	< 0.00202	0.101	0.0970	96	0.102	101	70-130	5	35	mg/kg	09.16.2020 22:55	
Ethylbenzene	< 0.00202	0.101	0.0857	85	0.0937	93	71-129	9	35	mg/kg	09.16.2020 22:55	
m,p-Xylenes	< 0.00404	0.202	0.170	84	0.189	94	70-135	11	35	mg/kg	09.16.2020 22:55	
o-Xylene	< 0.00202	0.101	0.0843	83	0.0937	93	71-133	11	35	mg/kg	09.16.2020 22:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	09.16.2020 22:55
4-Bromofluorobenzene	91		91		70-130	%	09.16.2020 22:55

Received by OCD: 12/10/2020 1:58:57 PM Address: Company Name: City, State ZIP: Project Manager: (432) 236-3849 Dan Moir Midland, Tx 79705 3300 North A Street LT Environmental, Inc., Permian office

Chain of Custody

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

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Bill to: (if different) Company Name:

Address: City, State ZIP:

> XTO Energy Kyle Littrell

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THE PERSON NAMED IN						
Project Number:	Û12920101	Routing 7		ANALYSIS REQUEST		Work Order Notes
P.O. Number:	EDDY	Rush:				
Sampler's Name:	William Mather	Due Date:				
SAMPLE RECEIPT	Temp Blank: Reg No	Wet Ice: CYPE NO				
Temperature (°C):			ers			
Received Intact:	CYD NO T-NM	F	1)			
Cooler Custody Seals:	NA		5)			
Sample Custody Seals:	NA NA		801 'A 0=		TA	TAT starts the day recevied by the
Sample Identification	Matrix Date	Time Depth	UMber PH (EPA TEX (EF			lab, if received by 4:30pm
SS01	s 9/16/2020	11:30 0.5'	× 1			?
		İ				Discrete
	2	1				
	1	1				
		X				
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	00	RCRA 13PPM Texas 11 /	N Sb As Ba Be	B Cd Ca Cr Co Cu Fe Pb Mg N	Ni K Se Ag SiO2	Na Sr TI Sn U V Zn
ce: Signature of this document a	and relinquishment of samples constitute	s a valid purchase order from	client company to Xenco, its	tice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors.		1001/2401/4/0//4/1 Н9
ervice. Xenco will be liable only enco. A minimum charge of \$75.	A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will	ume any responsibility for an harge of \$5 for each sample s	y losses or expenses incurre submitted to Xenco, but not a	service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control (enco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	rd terms and conditions ances beyond the control viously negotiated.	
Relinquisned by: (Signature)	Received by: (Signature)	(Signature)	Date/Time		Received by: (Signature)	Date/Time
Willy !!	Clare Ctob	there	9-16-20 16:15	2		
				4		
				6		

Revised Date 051418 Rev. 2018.1

∏RP Upvel IV

Program: UST/PST State of Project:

□RP □rownfields □RC Work Order Comments

*****□perfund

www.xenco.com

Page

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 09.16.2020 04.15.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 672768

Temperature Measuring device used: T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		5	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	er/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	bels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#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)?		No	
#18 Water VOC samples have zero headspa	ace?	N/A	

* Must be completed for	after-hours deliver	v of samples prior t	o placing in the	refrigerator
Must be combleted for	alter-mours acriver	V OI SAIIIDIGS DITOI I	o biacilia ili tile	i eli idei atoi

Analyst:

PH Device/Lot#:

Checklist completed by:

Cloe Clifton

Date: 09.16.2020

Checklist reviewed by:

SICA profiter

Jessica Kramer

Date: 09.17.2020

Received by OCD: 12/10/2020 1258557 PM the eurofins | Environment Testing

Certificate of Analysis Summary 672769

LT Environmental, Inc., Arvada, CO

Project Name: JRU DI1 BS2A 7W 212H

Project Id: Contact: 012920068

Dan Moir

Project Location:

Eddy County

Date Received in Lab: Wed 09.16.2020 16:15

Report Date: 09.17.2020 14:25

Project Manager: Jessica Kramer

	Lab Id:	672769-0	01	672769-0	02	672769-0	003		
	Field Id:	SS01	-	SS02	~-	SS03			
Analysis Requested									
	Depth:	0.5- ft		0.5- ft		0.5- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	09.16.2020	12:20	09.16.2020	12:21	09.16.2020	12:23		
BTEX by EPA 8021B	Extracted:	09.16.2020	18:19	09.16.2020	18:19	09.16.2020	18:19		
	Analyzed:	09.17.2020	00:13	09.17.2020	00:35	09.17.2020	00:58		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene	·	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202		
Toluene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202		
Ethylbenzene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202		
m,p-Xylenes		< 0.00397	0.00397	< 0.00403	0.00403	< 0.00404	0.00404		
o-Xylene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202		
Total Xylenes		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202		
Total BTEX		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202		
Chloride by EPA 300	Extracted:	09.16.2020	17:00	09.16.2020	17:00	09.16.2020	17:00		
	Analyzed:	09.16.2020	20:30	09.16.2020	20:35	09.16.2020	20:41		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		15100	992	8060	996	11600	1010		
TPH by SW8015 Mod	Extracted:	09.16.2020	17:30	09.16.2020	17:30	09.16.2020	17:30		
	Analyzed:	09.17.2020	02:56	09.17.2020	03:16	09.17.2020	03:37		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9	< 50.2	50.2		
Diesel Range Organics (DRO)		< 50.0	50.0	66.3	49.9	461	50.2		
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	60.9	50.2		
Total GRO-DRO		< 50.0	50.0	66.3	49.9	461	50.2		
Total TPH		< 50.0	50.0	66.3	49.9	522	50.2		

BRL - Below Reporting Limit

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

Jessica Vramer



Analytical Report 672769

for

LT Environmental, Inc.

Project Manager: Dan Moir

JRU DI1 BS2A 7W 212H 012920068 09.17.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

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



09.17.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 672769

JRU DI1 BS2A 7W 212H Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 672769. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 672769 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Veramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 672769

LT Environmental, Inc., Arvada, CO

JRU DI1 BS2A 7W 212H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	09.16.2020 12:20	0.5 ft	672769-001
SS02	S	09.16.2020 12:21	0.5 ft	672769-002
SS03	S	09.16.2020 12:23	0.5 ft	672769-003

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: JRU DI1 BS2A 7W 212H

Project ID: Report Date: 09.17.2020 012920068 Work Order Number(s): 672769 Date Received: 09.16.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 672769

LT Environmental, Inc., Arvada, CO

JRU DI1 BS2A 7W 212H

Sample Id: **SS01** Matrix:

Soil Date Received:09.16.2020 16:15

Lab Sample Id: 672769-001

Date Collected: 09.16.2020 12:20

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

% Moisture:

Date Prep:

09.16.2020 17:00

Basis:

Wet Weight

Seq Number: 3137358

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15100	992	mg/kg	09.16.2020 20:30		100

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst:

DTH

Date Prep: 09.16.2020 17:30 Basis:

Wet Weight

Seq Number: 3137360

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	09.17.2020 02:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	09.17.2020 02:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	09.17.2020 02:56	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	09.17.2020 02:56	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	09.17.2020 02:56	U	1
Surrogate	C	as Number %	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	75	%	70-135	09.17.2020 02:56
o-Terphenyl	84-15-1	72	%	70-135	09.17.2020 02:56

Certificate of Analytical Results 672769

LT Environmental, Inc., Arvada, CO

JRU DI1 BS2A 7W 212H

Sample Id:

SS01

Matrix:

Soil

Date Received:09.16.2020 16:15

Lab Sample Id: 672769-001

Date Collected: 09.16.2020 12:20

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

09.16.2020 18:19

Basis:

Wet Weight

Seq Number: 3137354

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198	mg/kg	09.17.2020 00:13	U	1
Toluene	108-88-3	< 0.00198	0.00198	mg/kg	09.17.2020 00:13	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	mg/kg	09.17.2020 00:13	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	mg/kg	09.17.2020 00:13	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	mg/kg	09.17.2020 00:13	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198	mg/kg	09.17.2020 00:13	U	1
Total BTEX		< 0.00198	0.00198	mg/kg	09.17.2020 00:13	U	1
Cympogata		a Number	0/ Dagayawy II	mita I imita	A nolveja Data	Floo	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	85	%	70-130	09.17.2020 00:13	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 00:13	



Certificate of Analytical Results 672769

LT Environmental, Inc., Arvada, CO

JRU DI1 BS2A 7W 212H

Sample Id: **SS02** Matrix:

Date Received:09.16.2020 16:15

Lab Sample Id: 672769-002

Soil Date Collected: 09.16.2020 12:21

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst:

Date Prep:

09.16.2020 17:00

% Moisture: Basis:

Wet Weight

Seq Number: 3137358

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8060	996	mg/kg	09.16.2020 20:35		100

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

Seq Number: 3137360

Date Prep:

09.16.2020 17:30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.17.2020 03:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	66.3	49.9		mg/kg	09.17.2020 03:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.17.2020 03:16	U	1
Total GRO-DRO	PHC628	66.3	49.9		mg/kg	09.17.2020 03:16		1
Total TPH	PHC635	66.3	49.9		mg/kg	09.17.2020 03:16		1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	75	%	70-135	09.17.2020 03:16
o-Terphenyl	84-15-1	72	%	70-135	09.17.2020 03:16

Certificate of Analytical Results 672769

LT Environmental, Inc., Arvada, CO

JRU DI1 BS2A 7W 212H

Sample Id:

SS02

Matrix:

Date Received:09.16.2020 16:15

Lab Sample Id: 672769-002

Soil Date Collected: 09.16.2020 12:21

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture:

MAB Analyst:

Date Prep: 09.16.2020 18:19 Basis:

Wet Weight

Seq Number: 3137354

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.17.2020 00:35	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.17.2020 00:35	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.17.2020 00:35	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.17.2020 00:35	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.17.2020 00:35	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.17.2020 00:35	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.17.2020 00:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	70-130	09.17.2020 00:35		
1,4-Difluorobenzene		540-36-3	104	%	70-130	09.17.2020 00:35		



Certificate of Analytical Results 672769

LT Environmental, Inc., Arvada, CO

JRU DI1 BS2A 7W 212H

Sample Id: SS03

Matrix:

Soil

Date Received:09.16.2020 16:15

Lab Sample Id: 672769-003

Date Collected: 09.16.2020 12:23

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Date Collected: 09.16.2020 12:2.

Prep Method: E300P

Tech:

MAB

Date Prep:

70 1110150

% Moisture:

Analyst:

MAB

09.16.2020 17:00

Basis:

Wet Weight

Seq Number: 3137358

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11600	1010	mg/kg	09.16.2020 20:41		100

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

09.17.2020 03:37

84-15-1

% Moisture:

Tech:
Analyst:

DTH DTH

Date Prep: 09.16.2020 17:30

) Basis:

70-135

Wet Weight

Seq Number: 3137360

o-Terphenyl

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	09.17.2020 03:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	461	50.2		mg/kg	09.17.2020 03:37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	60.9	50.2		mg/kg	09.17.2020 03:37		1
Total GRO-DRO	PHC628	461	50.2		mg/kg	09.17.2020 03:37		1
Total TPH	PHC635	522	50.2		mg/kg	09.17.2020 03:37		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	76	%	70-135	09.17.2020 03:37		

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Certificate of Analytical Results 672769

LT Environmental, Inc., Arvada, CO

JRU DI1 BS2A 7W 212H

Sample Id: SS03

Matrix:

Soil Date Received:09.16.2020 16:15

Lab Sample Id: 672769-003

Date Collected: 09.16.2020 12:23

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MA

Analyst:

MAB MAB

Date Prep: 09.16.2020 18:19 Basis:

% Moisture:

Wet Weight

Seq Number: 3137354

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.17.2020 00:58	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.17.2020 00:58	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.17.2020 00:58	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	09.17.2020 00:58	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.17.2020 00:58	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.17.2020 00:58	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.17.2020 00:58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1 4 D:fl	4	740.26.2	105	0/	70 120	00 17 2020 00.59		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	F
1,4-Difluorobenzene	540-36-3	105	%	70-130	09.17.2020 00:58	
4-Bromofluorobenzene	460-00-4	86	%	70-130	09.17.2020 00:58	



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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting 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

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

Matrix Spike

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS

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

Flag

Flag

QC Summary 672769

LT Environmental, Inc. JRU DI1 BS2A 7W 212H

Analytical Method: Chloride by EPA 300

Seq Number: 3137358

7711443-1-BLK

MB

Result

Spike

Amount

Matrix: Solid

LCS

%Rec

LCS

Result

LCS Sample Id: 7711443-1-BKS

LCSD

Result

E300P Prep Method:

Date Prep: 09.16.2020

LCSD Sample Id: 7711443-1-BSD

RPD Limits %RPD Units Analysis LCSD Flag %Rec Limit Date

Chloride <10.0 250 257 103 257 103 90-110 0 20 09.16.2020 18:24 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

Parent Sample Id:

MB Sample Id:

Parameter

3137358

672664-011

Matrix: Soil

672664-011 S MS Sample Id:

Prep Method:

E300P

Date Prep: 09.16.2020 MSD Sample Id: 672664-011 SD

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

20 09.16.2020 18:41 Chloride <9.96 199 207 104 206 104 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3137358

Matrix: Soil

Prep Method:

E300P

Date Prep: 09.16.2020 Parent Sample Id: 672664-021

MS Sample Id: 672664-021 S MSD Sample Id: 672664-021 SD

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 103 0 20 09.16.2020 19:57 <9.98 200 205 205 103 90-110 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

3137360

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 09.16.2020

MB Sample Id: 7711446-1-BLK LCS Sample Id: 7711446-1-BKS LCSD Sample Id: 7711446-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 09.16.2020 22:14 795 798 35 < 50.0 1000 80 80 70-135 0 mg/kg 09.16.2020 22:14 Diesel Range Organics (DRO) 859 851 85 70-135 35 < 50.0 1000 86 1 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Flag Date %Rec 09.16.2020 22:14 1-Chlorooctane 117 98 98 70-135 % 09.16.2020 22:14 o-Terphenyl 110 87 86 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3137360

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 09.16.2020

MB Sample Id: 7711446-1-BLK

Parameter

MBResult

Units

Analysis

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

Date 09.16.2020 21:54

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 = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

QC Summary 672769

LT Environmental, Inc. JRU DI1 BS2A 7W 212H

Analytical Method: TPH by SW8015 Mod

3137360 Seq Number:

Parent Sample Id:

672640-003

Matrix: Soil

SW8015P Prep Method:

Date Prep: 09.16.2020

MSD Sample Id: 672640-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	733	73	717	72	70-135	2	35	mg/kg	09.16.2020 23:14
Diesel Range Organics (DRO)	< 50.2	1000	766	77	739	74	70-135	4	35	mg/kg	09.16.2020 23:14

MS Sample Id: 672640-003 S

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		117		70-135	%	09.16.2020 23:14
o-Terphenyl	108		105		70-135	%	09.16.2020 23:14

Analytical Method: BTEX by EPA 8021B

3137354 Seq Number:

MB Sample Id: 7711468-1-BLK Matrix: Solid

LCS Sample Id: 7711468-1-BKS

SW5035A Prep Method:

Date Prep: 09.16.2020 LCSD Sample Id: 7711468-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Amount Result %Rec Result %Rec Limit Date 09.16.2020 22:10 Benzene < 0.00200 0.100 0.116 116 0.115 70-130 35 115 1 mg/kg 09.16.2020 22:10 Toluene < 0.00200 0.100 0.109 109 0.109 109 70-130 0 35 mg/kg 09.16.2020 22:10 Ethylbenzene < 0.00200 0.100 0.101 101 0.101 101 71-129 0 35 mg/kg 0.200 0.205 103 0.205 09.16.2020 22:10 m,p-Xylenes < 0.00400 103 70-135 0 35 mg/kg 101 71-133 09.16.2020 22:10 o-Xylene < 0.00200 0.100 0.101 0.101 101 0 35 mg/kg

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		99		70-130	%	09.16.2020 22:10
4-Bromofluorobenzene	88		92		85		70-130	%	09.16.2020 22:10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137354 Parent Sample Id:

672769-001

Matrix: Soil

MS Sample Id: 672769-001 S

Prep Method: Date Prep:

SW5035A 09.16.2020

MSD Sample Id: 672769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.102	101	0.106	105	70-130	4	35	mg/kg	09.16.2020 22:55	
Toluene	< 0.00202	0.101	0.0970	96	0.102	101	70-130	5	35	mg/kg	09.16.2020 22:55	
Ethylbenzene	< 0.00202	0.101	0.0857	85	0.0937	93	71-129	9	35	mg/kg	09.16.2020 22:55	
m,p-Xylenes	< 0.00404	0.202	0.170	84	0.189	94	70-135	11	35	mg/kg	09.16.2020 22:55	
o-Xylene	< 0.00202	0.101	0.0843	83	0.0937	93	71-133	11	35	mg/kg	09.16.2020 22:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	09.16.2020 22:55
4-Bromofluorobenzene	91		91		70-130	%	09.16.2020 22:55

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

Work Order No: (272769

Project Manager:	Dan Moir		Bil	Bill to: (if different)	Kyle Littrell	rell	Bill to: (if different) Kyle Littrell		om	ments
Company Name:	LT Environmental, Inc., Permian office	Inc., Permian o		Company Name:	XTO Energy	ergy		Program: UST/PST TRP	rownfields	RC 1 perfund
	3300 North A Street	et		Address:				1		
City, State ZIP:	Midland, Tx 79705		Cit	City, State ZIP:				Reporting:Level IIIevel III	TSU/T8	TRP (evel IV
Phone:	(432) 236-3849		Email: wn	Email: wmather@ltenv.com, dmoir@ltenv.com	n, dmoir@	ltenv.com		Deliverables: EDD	ADaPT []	Other:
Project Name:	JRU DI1 BS	JRU DI1 BS2A 7W 212H	Turn ,	Turn Around			ANALYSIS REQUEST	ST		Work Order Notes
Project Number:	<i>()</i> 129	712920066	Routine	₹		-				
P.O. Number:	Е	EDDY	Rush:							
Sampler's Name:	Willian	William Mather	Due Date	Ö						
SAMPLE RECEIPT	PT Temp Blank:	lank: 6 No	Wet Ice: S	No No						
Temperature (°C):	5.2/5.0		Thermometer ID							
Received Intact:	No section	1-0	too-h	ntai						
Cooler Custody Seals:	Yes (No			o e f Co	-				TAT s	TAT starts the day recevied by the
		i ora	Total Containers.	er	-				<u> </u>	lab, if received by 4:30pm
Sample Identification		Matrix Sampled	Time Sampled	Depth Numi	TPH (I	BTEX			S	Sample Comments
SS01	S	9/16/2020	12:20 0.5	_	×	×				Discrete
SS02	s	9/16/2020	12:21 0.5	_	×	×				Discrete
\$803	w	9/16/2020	12:23 0.5	_	×	×				Discrete
									-	
	1	_								
	N	1			\parallel	1				
		0	1							
Total 200.7 / 6010 Circle Method(s) a	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	ω	8RCRA 13PPM TCLP / SPLP 6	13PPM Texas 11 Al Sb SPLP 6010: 8RCRA Sb	Sb As Sb As I	Ba Be B Ba Be Cd	Cd Ca Cr Co Cu Fe Pb Cr Co Cu Pb Mn Mo Ni	Mo Ni K Se Ag TI U	SiO2 Na Sr TI 1631 / 245.	Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg
tice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such loss Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will	cument and relinquishmoble only for the cost of s le of \$75.00 will be applic	ent of samples consti amples and shall not ed to each project and	tutes a valid purcha: assume any respon d a charge of \$5 for o	se order from client sibility for any loss each sample submi	company to es or expens ted to Xence	Xenco, its a ses incurred b, but not an	stice: 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 service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	tors. It assigns standard terms and conditions ses are due to circumstances beyond the control be enforced unless previously negotiated.		
Relinquished by: (Signature)	Signature)	Received b	Received by: (Signature)		Date/Time	ne e	Relinquished by: (Signature)	e) Received by: (Signature)	gnature)	Date/Time
Show the	1	You Ca	the	1.10	1 08-31-12	16:15 2				
,				1		4 0				

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 09.16.2020 04.15.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 672769

Temperature Measuring device used: T_NM_007

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

* Must be completed for after-hours delivery of samples prior to placing in the refriger	
	1tor

Anal	vst.
\I I I I	y Ot.

PH Device/Lot#:

Checklist completed by:

Cloe Clifton

Date: 09.16.2020

Checklist reviewed by:

Jessica Warner

Date: 09.17.2020

eurofins Environment Testing

Certificate of Analysis Summary 672770

LT Environmental, Inc., Arvada, CO

Project Name: JRU DI1 BS1 3E 213H

Project Id: Contact: 012920067

Dan Moir

Project Location: Eddy County

Date Received in Lab: Wed 09.16.2020 16:15

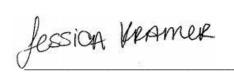
Report Date: 09.18.2020 14:10

Project Manager: Jessica Kramer

	Lab Id:	672770-0	001	672770-0	02	672770-0	003	672770-0	004		
Analysis Requested	Field Id:	SS01		SS02		SS03		SS04			
Anaiysis Kequesieu	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft	:		
	Matrix:	SOIL		SOIL		SOIL		SOIL	,		
	Sampled:	09.16.2020	11:30	09.16.2020	11:31	09.16.2020	11:32	09.16.2020	11:35		
BTEX by EPA 8021B	Extracted:	09.16.2020	18:19	09.16.2020	18:19	09.16.2020	18:19	09.16.2020	18:19		
	Analyzed:	09.17.2020	01:43	09.17.2020	02:05	09.17.2020	02:28	09.17.2020	02:50		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200		
Toluene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200		
Ethylbenzene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200		
m,p-Xylenes		< 0.00401	0.00401	< 0.00397	0.00397	< 0.00397	0.00397	< 0.00399	0.00399		
o-Xylene		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200		
Total Xylenes		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200		
Total BTEX		< 0.00200	0.00200	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	09.16.2020	17:00	09.16.2020	17:00	09.16.2020	17:00	09.16.2020	17:00		
	Analyzed:	09.16.2020	20:46	09.16.2020	20:52	09.16.2020	20:57	09.16.2020	21:03		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		7560	1000	25500	990	13100	998	16300	1000		
TPH by SW8015 Mod	Extracted:	09.16.2020	17:30	09.17.2020	08:35	09.17.2020	08:35	09.17.2020	08:35		
	Analyzed:	09.17.2020	03:57	09.17.2020 12:07		09.17.2020 13:07		09.17.2020 13:27			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9	< 50.0	50.0		
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9	83.3	50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9	< 50.0	50.0		
Total GRO-DRO		<49.8	49.8	<49.9	49.9	<49.9	49.9	83.3	50.0		
Total TPH		<49.8	49.8	<49.9	49.9	<49.9	49.9	83.3	50.0		

BRL - Below Reporting Limit

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





Analytical Report 672770

for

LT Environmental, Inc.

Project Manager: Dan Moir

JRU DI1 BS1 3E 213H 012920067 09.18.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

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



09.18.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 672770

JRU DI1 BS1 3E 213H Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 672770. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 672770 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Veramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	09.16.2020 11:30	0.5 ft	672770-001
SS02	S	09.16.2020 11:31	0.5 ft	672770-002
SS03	S	09.16.2020 11:32	0.5 ft	672770-003
SS04	S	09.16.2020 11:35	0.5 ft	672770-004

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: JRU DI1 BS1 3E 213H

Project ID: 012920067 Work Order Number(s): 672770

Report Date: 09.18.2020 Date Received: 09.16.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id: SS01

Matrix: Soil

Date Received:09.16.2020 16:15

Lab Sample Id: 672770-001

Date Collected: 09.16.2020 11:30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB MAB

Date Prep: 09.16.2020 17:00

% Moisture:

Basis:

Wet Weight

Analyst: MAB
Seq Number: 3137358

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7560	1000	mg/kg	09.16.2020 20:46		100

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 09.16.2020 17:30

Basis: V

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	09.17.2020 03:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	09.17.2020 03:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	09.17.2020 03:57	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	09.17.2020 03:57	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	09.17.2020 03:57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	83	%	70-135	09.17.2020 03:57		
o-Terphenyl		84-15-1	90	%	70-135	09.17.2020 03:57		



Certificate of Analytical Results 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id: SS01 Lab Sample Id: 672770-001 Matrix: Soil

Date Received:09.16.2020 16:15

Date Collected: 09.16.2020 11:30

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

MAB

MAB

Prep Method: SW5035A

% Moisture:

Date Prep: 09.16.2020 18:19

Basis:

Wet Weight

Seq Number: 3137354

Tech:

Analyst:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.17.2020 01:43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.17.2020 01:43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.17.2020 01:43	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.17.2020 01:43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.17.2020 01:43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.17.2020 01:43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.17.2020 01:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	09.17.2020 01:43		
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.17.2020 01:43		



Certificate of Analytical Results 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id: **SS02** Matrix:

Date Received:09.16.2020 16:15

Lab Sample Id: 672770-002

Soil Date Collected: 09.16.2020 11:31

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

MAB Analyst:

Date Prep:

09.16.2020 17:00

Basis:

Wet Weight

Seq Number: 3137358

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25500	990	mg/kg	09.16.2020 20:52		100

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep:

09.17.2020 08:35

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.17.2020 12:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	09.17.2020 12:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.17.2020 12:07	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	09.17.2020 12:07	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	09.17.2020 12:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Certificate of Analytical Results 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id:

SS02

Matrix:

Date Received:09.16.2020 16:15

Lab Sample Id: 672770-002

Soil Date Collected: 09.16.2020 11:31

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst:

MAB

Date Prep: 09.16.2020 18:19 Basis:

Wet Weight

Seq Number: 3137354

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.17.2020 02:05	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.17.2020 02:05	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.17.2020 02:05	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	09.17.2020 02:05	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.17.2020 02:05	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.17.2020 02:05	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.17.2020 02:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.17.2020 02:05		
4-Bromofluorobenzene		460-00-4	87	%	70-130	09.17.2020 02:05		



Certificate of Analytical Results 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id: SS03

Matrix: Soil

Date Received:09.16.2020 16:15

Lab Sample Id: 672770-003

Date Collected: 09.16.2020 11:32

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

09.16.2020 17:00

Basis:

Wet Weight

Seq Number: 3137358

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13100	998	mg/kg	09.16.2020 20:57		100

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

09.17.2020 08:35

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.17.2020 13:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	09.17.2020 13:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.17.2020 13:07	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	09.17.2020 13:07	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	09.17.2020 13:07	U	1
Surrogate	(Cas Number %	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	85	%	70-135	09.17.2020 13:07
o-Terphenyl	84-15-1	88	%	70-135	09.17.2020 13:07



Certificate of Analytical Results 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id: **SS03** Matrix: Soil Date Received:09.16.2020 16:15

Lab Sample Id: 672770-003

Date Collected: 09.16.2020 11:32

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture:

Analyst:

MAB

Date Prep: 09.16.2020 18:19 Basis:

Wet Weight

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.17.2020 02:28	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.17.2020 02:28	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.17.2020 02:28	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	09.17.2020 02:28	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.17.2020 02:28	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.17.2020 02:28	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.17.2020 02:28	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1.4 Difluorobenzene	5	40.36.3	00	0/2	70 130	00 17 2020 02:28		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 02:28	
4-Bromofluorobenzene	460-00-4	90	%	70-130	09.17.2020 02:28	

1

Flag



Xenco

Certificate of Analytical Results 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id: **SS04**

Matrix: Soil Date Received:09.16.2020 16:15

Lab Sample Id: 672770-004

Date Collected: 09.16.2020 11:35

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst:

Date Prep:

09.16.2020 17:00

% Moisture: Basis:

Wet Weight

Seq Number: 3137358

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 16300 1000 mg/kg 09.16.2020 21:03 100

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

Seq Number: 3137402

Date Prep:

09.17.2020 08:35

Prep Method: SW8015P

% Moisture:

mg/kg

Basis: Wet Weight

Cas Number **Parameter** Result RLUnits **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 < 50.0 50.0 09.17.2020 13:27 U mg/kg 1 Diesel Range Organics (DRO) C10C28DRO 09.17.2020 13:27 83.3 50.0 mg/kg 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 < 50.0 50.0 09.17.2020 13:27 U mg/kg 1 **Total GRO-DRO** PHC628 83.3 50.0 mg/kg 09.17.2020 13:27 1 **Total TPH** PHC635 50.0 09.17.2020 13:27

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	83	%	70-135	09.17.2020 13:27
o-Terphenyl	84-15-1	87	%	70-135	09.17.2020 13:27

83.3



Certificate of Analytical Results 672770

LT Environmental, Inc., Arvada, CO

JRU DI1 BS1 3E 213H

Sample Id: **SS04** Lab Sample Id: 672770-004 Matrix: Soil Date Received:09.16.2020 16:15

Date Collected: 09.16.2020 11:35

09.16.2020 18:19

%

70-130

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

09.17.2020 02:50

MAB

% Moisture:

Tech:

Analyst:

MAB Date Prep: Basis:

Wet Weight

Seq Number: 3137354

4-Bromofluorobenzene

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.17.2020 02:50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.17.2020 02:50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.17.2020 02:50	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.17.2020 02:50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.17.2020 02:50	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.17.2020 02:50	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.17.2020 02:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1.4-Difluorobenzene		540-36-3	102	%	70-130	09.17.2020 02:50		

91

460-00-4



Flagging Criteria

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

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

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

QC Summary 672770

LT Environmental, Inc.

JRU DI1 BS1 3E 213H

LCSD

Analytical Method: Chloride by EPA 300

Seq Number: 3137358

MB

Spike

Matrix: Solid

E300P Prep Method:

RPD

Date Prep: 09.16.2020

Units

LCS Sample Id: 7711443-1-BKS LCSD Sample Id: 7711443-1-BSD MB Sample Id: 7711443-1-BLK LCS

LCS

Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 257 103 257 103 90-110 0 20 09.16.2020 18:24 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3137358

Matrix: Soil

Prep Method:

0

%RPD

E300P

Date Prep: 09.16.2020

Parent Sample Id: 672664-011

672664-011 S MS Sample Id:

MSD Sample Id: 672664-011 SD

mg/kg

mg/kg

Parameter

Parent Spike Result Amount <9.96 199

MS MS Result %Rec 207 104

MSD Result 206

MSD Limits %Rec 104 90-110

Limits

LCSD

%RPD RPD Units Limit 20

Analysis Flag Date

09.16.2020 18:41

Analysis

Chloride

Analytical Method: Chloride by EPA 300

3137358 672664-021 Matrix: Soil

Prep Method: Date Prep: E300P

09.16.2020 672664-021 S MSD Sample Id: 672664-021 SD

0

Parameter

Chloride

Parent Sample Id:

Seq Number:

Spike **Parent** Result Amount <9.98 200

MS MS Result %Rec 205 103

MS Sample Id:

MSD Result 205

MSD Limite %Rec 103 90-110

RPD %RPD Limit

20

Units

Analysis Flag Date

Flag

Flag

09.16.2020 19:57

Analytical Method: TPH by SW8015 Mod Seq Number:

3137360

Matrix: Solid

SW8015P Prep Method:

09.16.2020

Date Prep: MB Sample Id: 7711446-1-BLK LCS Sample Id: 7711446-1-BKS LCSD Sample Id: 7711446-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 09.16.2020 22:14 798 35 < 50.0 1000 795 80 80 70-135 0 mg/kg 09.16.2020 22:14 Diesel Range Organics (DRO) 859 851 85 70-135 35 < 50.0 1000 86 1 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag 09.16.2020 22:14 1-Chlorooctane 117 98 98 70-135 % 09.16.2020 22:14 o-Terphenyl 110 87 86 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137402

MB Sample Id:

7711528-1-BLK

Matrix: Solid

LCS Sample Id: 7711528-1-BKS Prep Method:

SW8015P

Date Prep: 09.17.2020 LCSD Sample Id: 7711528-1-BSD

MB Spike LCS LCS Limits %RPD RPD Units Analysis LCSD LCSD **Parameter** Limit Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 09.17.2020 11:26 1000 805 81 809 81 70-135 35 < 50.0 0 mg/kg 09.17.2020 11:26 Diesel Range Organics (DRO) 70-135 < 50.0 1000 876 88 869 87 1 35 mg/kg

MB MB LCS LCS LCSD Units Analysis LCSD Limits **Surrogate** Flag Date %Rec Flag %Rec %Rec Flag 09.17.2020 11:26 1-Chlorooctane 117 99 99 70-135 % 09.17.2020 11:26 o-Terphenyl 111 89 90 70-135 %

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 = Parent Result

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

Received by OCD: 12/10/2020 13585574PM Provioument Testing Xenco

QC Summary 672770

LT Environmental, Inc. JRU DI1 BS1 3E 213H

Analytical Method: TPH by SW8015 Mod

Seg Number: 3137360

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.16.2020

MB Sample Id: 7711446-1-BLK

Parameter Re

MB Result Units

Analysis Date Flag

 $Motor Oil Range Hydrocarbons (MRO) \\ <50.0 \\ mg/kg \quad 09.16.2020 \ 21:54$

Analytical Method: TPH by SW8015 Mod

Seq Number:

3137402

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.17.2020

MB Sample Id: 7711528-1-BLK

Parameter

MB Result Units

Analysis Date Flag

 $Motor Oil Range Hydrocarbons (MRO) \\ < 50.0 \\ mg/kg \\ 09.17.2020 11:06$

Analytical Method: TPH by SW8015 Mod

Seq Number:

3137360

Matrix: Soil

Prep Method: SW8015P

Date Prep:

SW8015P 09.16.2020

Parent Sample Id: 672640-003 MS Sample Id: 672640-003 S MSD Sample Id: 672640-003 SD

Spike %RPD **RPD** MS MS Units Parent MSD **MSD** Limits Analysis Flag **Parameter** Result Result %Rec Limit Date Amount Result %Rec Gasoline Range Hydrocarbons (GRO) <50.2 1000 2 35 09.16.2020 23:14 733 73 717 72 70-135 mg/kg Diesel Range Organics (DRO) < 50.2 1000 766 77 739 70-135 4 35 09.16.2020 23:14 74 mg/kg

MS MS **MSD** Limits Units Analysis MSD **Surrogate** Flag Flag %Rec %Rec Date 119 09.16.2020 23:14 1-Chlorooctane 117 70-135 % o-Terphenyl 108 105 70-135 % 09.16.2020 23:14

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137402

Parent Sample Id:

672770-002

Prep Method:

SW8015P

Flag

Date Prep: 09.17.2020 MSD Sample Id: 672770-002 SD

%RPD RPD **Parent** Spike MS MS **MSD MSD** Limits Units Analysis **Parameter** Result Result Limit %Rec Date Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 35 09.17.2020 12:27 < 50.2 1000 767 77 770 77 70-135 0 mg/kg 70-135 09.17.2020 12:27 < 50.2 1000 778 78 804 3 Diesel Range Organics (DRO) 80 35 mg/kg

Matrix: Soil

MS Sample Id: 672770-002 S

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag %Rec Flag Date 09.17.2020 12:27 85 1-Chlorooctane 84 70-135 % 09.17.2020 12:27 o-Terphenyl 71 76 70-135 %

QC Summary 672770

LT Environmental, Inc.

JRU DI1 BS1 3E 213H

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3137354Matrix:SolidDate Prep:09.16.2020MB Sample Id:7711468-1-BLKLCS Sample Id:7711468-1-BKSLCSD Sample Id:7711468-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.116	116	0.115	115	70-130	1	35	mg/kg	09.16.2020 22:10	
Toluene	< 0.00200	0.100	0.109	109	0.109	109	70-130	0	35	mg/kg	09.16.2020 22:10	
Ethylbenzene	< 0.00200	0.100	0.101	101	0.101	101	71-129	0	35	mg/kg	09.16.2020 22:10	
m,p-Xylenes	< 0.00400	0.200	0.205	103	0.205	103	70-135	0	35	mg/kg	09.16.2020 22:10	
o-Xylene	< 0.00200	0.100	0.101	101	0.101	101	71-133	0	35	mg/kg	09.16.2020 22:10	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	100		ç	9		99		70	-130	%	09.16.2020 22:10	
4-Bromofluorobenzene	88		ç	92		85		70	-130	%	09.16.2020 22:10	

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3137354Matrix:SoilDate Prep:09.16.2020

Parent Sample Id: 672769-001 MS Sample Id: 672769-001 S MSD Sample Id: 672769-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.102	101	0.106	105	70-130	4	35	mg/kg	09.16.2020 22:55	
Toluene	< 0.00202	0.101	0.0970	96	0.102	101	70-130	5	35	mg/kg	09.16.2020 22:55	
Ethylbenzene	< 0.00202	0.101	0.0857	85	0.0937	93	71-129	9	35	mg/kg	09.16.2020 22:55	
m,p-Xylenes	< 0.00404	0.202	0.170	84	0.189	94	70-135	11	35	mg/kg	09.16.2020 22:55	
o-Xylene	< 0.00202	0.101	0.0843	83	0.0937	93	71-133	11	35	mg/kg	09.16.2020 22:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	09.16.2020 22:55
4-Bromofluorobenzene	91		91		70-130	%	09.16.2020 22:55

Phone:

City, State ZIP:

Midland, Tx 79705 3300 North A Street LT Environmental, Inc.,

Email: wmather@ltenv.com, dmoir@ltenv.com

Company Name:

Permian office

Address:

City, State ZIP:

Company Name:

XTO Energy

Program: UST/PST State of Project:

Dan Moir

Chain of Custody

Work Order No: 672770

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Bill to: (if different) Kyle Littrell

D=8021)
8 Cd Ca C
sig

Revised Date 051418 Rev. 2018.1

Deliverables: EDD

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 09.16.2020 04.15.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 672770

Temperature Measuring device used: T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		5	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	bels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated t	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

Must	be complet	ted for	after-hours	s delivery o	f sampl	es prior t	o placing in t	the refrigerator
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PH Device/Lot#: Analyst:

> Checklist completed by: Date: 09.16.2020

Checklist reviewed by:

Jessica Kramer

Jessica Kramer Date: 09.17.2020

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

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

CONDITIONS

Action 10578

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	10578	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
ceads	Groundwater is not encountered during delineation and/or excavation activities.
ceads	Each 5-point composite sample will represent an area of no greater than 500 square feet for floor and sidewall samples.