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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 NRM2015454866 Form C-141 Revised August 24, 2018

Pagee110f/67

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2015454866
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.12424

	-103.89604
(NAD 83	in decimal degrees to 5 decimal places)

Site Name Pierce Canyon 17 TB	Site Type Tank Battery
Date Release Discovered 5-17-2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
Р	17	258	30E	Eddy

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

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
▶ Produced Water	Volume Released (bbls) 35	Volume Recovered (bbls) 35
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Water tanks overflowed through top of the thief hatches on the PC 17 TB. A vac truck was dispatched and recovered 35 bbl PW from inside impermeable containment. Liner inspection determined the liner was insufficient. A third-party contractor has been retained for remediation activities.

Rec

÷

eived by OCD: 2/12/2021				Page
Form C-141	State of New Mexico	I	ncident ID	NRM2015454866
Page 2	Oil Conservation Division	Г	District RP	
			acility ID	
		A	pplication ID	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon Release was over 25 barrels	sible party consider thi	s a major release	?
X Yes No				
	notice given to the OCD? By whom? To wh	•	·	email, etc)?
	ke Bratcher; Rob Hamlet; Victoria Venegas; EMNRD' via email on Monday, May 18, 202		m.gov; Crisha	+
	Initial Re	•		
The responsible	party must undertake the following actions immediately	y unless they could create a s	afety hazard that wor	ıld result in injury
 ✗ The source of the rel ✗ The impacted area h 	ease has been stopped. as been secured to protect human health and	the environment.		
	ave been contained via the use of berms or d		other containme	ent devices.
	recoverable materials have been removed and	· · ·		
•	ed above have <u>not</u> been undertaken, explain v			
N/A	a doo vo navo <u>nov</u> boon undortakon, explain v	in the second		
has begun, please attach	AC the responsible party may commence re a narrative of actions to date. If remedial ont area (see $19.15.29.11(A)(5)(a)$ NMAC), p	efforts have been succe	ssfully complete	d or if the release occurred
regulations all operators are public health or the environ failed to adequately investi	ormation given above is true and complete to the le e required to report and/or file certain release not it ment. The acceptance of a C-141 report by the O gate and remediate contamination that pose a three of a C-141 report does not relieve the operator of	fications and perform corr CD does not relieve the o at to groundwater, surface	ective actions for r perator of liability water, human hea	eleases which may endanger should their operations have lth or the environment. In
Printed Name: Kyle Litt	rell	Title: SH&E Superv	visor	
Signature	tut	Date:		
email: Syle Chirell@xt	oenergy.com	Telephone:	-7331	

OCD Only

Received by:	Ramona Marcus
-	

Date: 6/2/2020

NRM2015454866

Location:	Pierce Canyon 17 TB		
Spill Date:	5/17/2020		
	Area 1		
Approximate A	rea =	196.51	cu. ft.
	VOLUME RECOVERED		
Total Produced	Water =	35.00	bbls

TOTAL VOLUME OF LEAK		
Total Produced Water =	35.00 bbls	
TOTAL VOLUME RECOVERED		
Total Produced Water =	35.00 bbls	

Oil Conservation Division

	Page 4 of 6
Incident ID	NRM2015454866
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?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔽 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔽 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- ∇ Data table of soil contaminant concentration data
- $\mathbf{\nabla}$ 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
- Z Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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

Received by OCD: 2/12/20	D21 8:24:17 AM State of New Mexico			Page 5 of 67
			Incident ID	NRM2015454866
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the enviror failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name:K Signature: email:K	ormation given above is true and complete to the e required to report and/or file certain release no ument. The acceptance of a C-141 report by the gate and remediate contamination that pose a th of a C-141 report does not relieve the operator of vie Littrell	tifications and perform co OCD does not relieve the reat to groundwater, surfa	prrective actions for rele operator of liability sh ce water, human health iance with any other fe pervisor	eases which may endanger ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

Page 5

Oil Conservation Division

Incident ID	NRM2015454866
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	l as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production deconstruction.	on equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
\boxtimes Contamination does not cause an imminent risk to human health, the end of the second sec	nvironment, or groundwater.
I hereby certify that the information given above is true and complete to th rules and regulations all operators are required to report and/or file certain which may endanger public health or the environment. The acceptance of liability should their operations have failed to adequately investigate and re surface water, human health or the environment. In addition, OCD accepta responsibility for compliance with any other federal, state, or local laws an	release notifications and perform corrective actions for releases a C-141 report by the OCD does not relieve the operator of emediate contamination that pose a threat to groundwater, ance of a C-141 report does not relieve the operator of
Printed Name:Kyle Littrell Titl	e: SH&E Supervisor
Signature: Contractor Date	e: <u>02/10/2021</u>
email:	ephone: <u>432-221-7331</u>
OCD Only	
Received by: Date	:
Approved Approved with Attached Conditions of Approv	val Denied Deferral Approved
Signature: Date:	

•

Oil Conservation Division

Incident ID	NRM2015454866
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.
Printed Name:Kyle Littrell Title: Title: SH&E Supervisor
Signature: Date: D
email:KTe_Littrell@xtoenergy.com Telephone:432-221-7331
OCD Only
Received by: <u>Robert Hamlet</u> Date: <u>6/30/2021</u>
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Robert Hamlet Date: 6/30/2021

Page 5

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 NRM2015454866 Form C-141 Revised August 24, 2018

Pagee810f/67

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2015454866
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.12424

(NAD 83 in	n decimal degrees to 5 decimal places)

-103.89604

Site Name Pierce Canyon 17 TB	Site Type Tank Battery	
Date Release Discovered 5-17-2020	API# (if applicable)	

Unit Letter	Section	Township	Range	County
Р	17	258	30E	Eddy

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

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
▶ Produced Water	Volume Released (bbls) 35	Volume Recovered (bbls) 35
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Water tanks overflowed through top of the thief hatches on the PC 17 TB. A vac truck was dispatched and recovered 35 bbl PW from inside impermeable containment. Liner inspection determined the liner was insufficient. A third-party contractor has been retained for remediation activities.

Rec

÷

Form C-141				Page
	State of New Mexico		Incident ID	NR M2015454866
Page 2	Oil Conservation Division	n	District RP	
			Facility ID	
			Application ID	
Was this a major	If YES, for what reason(s) does the res	sponsible party consid	er this a major release	.9
release as defined by	Release was over 25 barrels	sponsible party consid	er uns a major release	; :
19.15.29.7(A) NMAC?	Release was over 25 barrens			
🗶 Yes 🗌 No				
	notice given to the OCD? By whom? To			email, etc)?
	ike Bratcher; Rob Hamlet; Victoria Veneg EMNRD' via email on Monday, May 18,		l@blm.gov; Crisha	
Morgan; Griswold, Jim,	EMINED via email on Monday, May 18,	, 2020 1:31 PNI.		Ŧ
	Initial	Response		
The responsibl	e party must undertake the following actions immed	liately unless they could cre	ate a safety hazard that wo	uld result in iniury
\mathbf{k} The source of the re	••			
The impacted area h	has been secured to protect human health a	and the environment.		
Released materials	have been contained via the use of berms	or dikes, absorbent pa	ds, or other containme	ent devices.
► All free liquids and	recoverable materials have been removed	l and managed approp	riately.	
If all the actions describ	ed above have not been undertaken, expla	ain why:		
N/A				
	MAC the responsible party may commend			
	h a narrative of actions to date. If remedent area (see 19.15.29.11(A)(5)(a) NMAC			
	formation given above is true and complete to re required to report and/or file certain release			
	nment. The acceptance of a C-141 report by the			
	igate and remediate contamination that pose a			
addition, OCD acceptance and/or regulations.	of a C-141 report does not relieve the operato	r of responsibility for co	mpliance with any other	rederal, state, or local laws
Kyle Lit	trell	SUNE S	unervisor	
Printed Name: Kyle Lit	2	Title:	Supervisor	
1/2-	ATT	Date: 5-29-20		
Signature	Then /	Date:		
Signature	toenergy.com	Date: Telephone:		

OCD Only

Received by:	Ramona Marcus	
Received by:	Ramona Marcus	_

Date: 6/2/2020

NRM2015454866

Location:	Pierce Canyon 17 TB		
Spill Date:	5/17/2020		
	Area 1		
Approximate A	rea =	196.51	cu. ft.
	VOLUME RECOVERED		
Total Produced	Water =	35.00	bbls

TOTAL VOLUME OF LEAK					
Total Produced Water =	35.00 bbls				
TOTAL VOLUME RECOVERED					
Total Produced Water =	35.00 bbls				

Oil Conservation Division

	Page 11 of 6
Incident ID	NRM2015454866
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?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 📈 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗹 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔽 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- ∇ Doto
- Data table of soil contaminant concentration data
- \square 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
- Z Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 2/12/	2021 8:24:17 AM State of New Mexico		Page 12 of		
			Incident ID	NRM2015454866	
Page 4	Oil Conservation Division		District RP		
			Facility ID		
			Application ID		
regulations all operators a public health or the envirt failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: Signature: email:	nformation given above is true and complete to the are required to report and/or file certain release no onment. The acceptance of a C-141 report by the stigate and remediate contamination that pose a the e of a C-141 report does not relieve the operator o Kyle Littrell	tifications and perform co OCD does not relieve the reat to groundwater, surfa	prrective actions for rele coperator of liability sho ce water, human health iance with any other feo pervisor	ases which may endanger ould their operations have or the environment. In	
OCD Only Received by:		Date:			

Page 5

Incident ID	NRM2015454866
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 confident of the	rmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around produce deconstruction.	luction 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, t	he environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file cer which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate a surface water, human health or the environment. In addition, OCD acc responsibility for compliance with any other federal, state, or local law	tain release notifications and perform corrective actions for releases e of a C-141 report by the OCD does not relieve the operator of nd remediate contamination that pose a threat to groundwater, ceptance of a C-141 report does not relieve the operator of
Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature: Statut	Date: <u>02/10/2021</u>
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
<u>oeb omy</u>	
Received by:	Date:
Approved Approved with Attached Conditions of Ap	pproval Denied Deferral Approved
Signature: D	ate:

•

WSP USA

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

February 10, 2021

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

RE: Closure Request Addendum XTO Energy, Inc. Pierce Canyon 17 TB Incident Number NRM2015454866 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), is pleased to present the following addendum to an original Deferral Request submitted August 5, 2020. This Addendum provides an update to the delineation efforts at Pierce Canyon 17 Tank Battery (TB) (Site) in Unit P, Section 17, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). XTO was notified by the New Mexico Oil Conservation Division (NMOCD) on December 7, 2020 of the denial of the original Deferral Request. In the denial, NMOCD expressed concern that residual impacts to soil were not vertically delineated at the deepest sample point location (BH03). Based on the additional delineation activities described below, XTO is requesting no further action (NFA) for Incident Number NRM2015454866.

REVISIONS

The revised report addresses the following updates:

- Residual soil impacts below the lined secondary containment were not vertically delineated due to equipment refusal during the initial attempt and safety concerns prohibiting mechanical excavation within the containment. WSP returned to the Site to advance a soil boring at the original BH03 borehole location to 4 feet below ground surface (bgs), and subsequently collected delineation soil sample BH03C. The description of the supplemental delineation event, including photographic evidence, the respective lithologic/soil sampling log, and laboratory analytical report, are presented in this Addendum.
- This Addendum only includes field summaries relevant to fulfilling the condition issued by the NMOCD on December 7, 2020. NMOCD requested vertical delineation of the deepest sample inside the secondary lined containment to the applicable Table 1 Closure Criteria. All previous data can be referenced in the original report.

wsp

District II Page 2

BACKGROUND

On May 17, 2020, the water tanks overflowed through the top of the thief hatches, resulting in 35 barrels (bbls) of produced water being released into the lined secondary containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 35 bbls of produced were recovered. A liner integrity inspection was immediately conducted by XTO personnel following the recovery. A 48-hour advance notice of liner inspection was provided via email to the NMOCD District II office and upon inspection, the liner was determined to be compromised. XTO reported the release to the NMOCD via email on May 18, 2020 and submitted a Release Notification and Corrective Action Form C-141 (Form C-141) on May 29, 2020 that was subsequently assigned Incident Number NRM2015454866.

SITE CHARACTERIZATION

As stated in the original report, WSP 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). Results from the characterization desktop review are presented on Form C-141, Site Assessment/Characterization Form. Potential site receptors are identified on Figure 1. The following Closure Criteria were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

DELINEATION ACTIVITIES

On January 7, 2021, WSP utilized a Shaw Tool, Ltd Portable Core Drill to advance the area associated with soil sample BH03 to determine the vertical extent of impact. Soil sample BH03C was collected at 4 feet bgs. Due to the location of the release, a Hot Work Permit was necessary to conduct investigative motor or electric powered drilling methods within 35 feet of any hydrocarbon sources. In coordination with XTO, an XTO safety representative was retained to conduct air monitoring as part of the permit process for investigative core drilling activities.

The borehole soil sample was field screened for volatile aromatic hydrocarbons and chloride utilizing a photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for the continuation of BH03 were logged on a lithologic/soil sampling log, which is included in Attachment 1. The delineation soil sample location is depicted on Figure 2. Photographic evidence is included in Attachment 2.



District II Page 3

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

ANALYTICAL RESULTS

Laboratory analytical results from the delineation soil sample indicates compliance with Closure Criteria and defines the vertical extent of residual subsurface impacts. Laboratory analytical results are summarized in Table 1. The complete laboratory analytical report is included in Attachment 3.

DEFERRAL REQUEST

Due to the advancement of soil sample BH03C, WSP achieved vertical delineation at sample location BH03 in accordance with the Closure Criteria at approximately 4 feet bgs within the lined secondary containment and addressed NMOCD's reason for denial of the original Deferral Request. Based on the laboratory analytical results, WSP estimates approximately 637 cubic yards of impacted soil is left in place below the 4,302 square foot lined secondary containment. WSP requests NMOCD to review the supplemental delineation data and reconsider the denial associated with the original Deferral Request. As such, XTO respectfully requests to defer final remediation of soil impacts for Incident Number NRM2015454866 until well plugging and abandonment.

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

Sincerely,

WSP USA

anna Byers

Anna Byers Consultant, Geologist

Ashley L. Ager

Ashley L. Ager, P.G. Managing Director, Geologist



District II Page 4

cc: Kyle Littrell, XTO Robert Hamlet, NMOCD Victoria Venegas, NMOCD Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Location Map
- Figure 3 Deferral Area Map
- Table 1Soil Analytical Results
- Attachment 1 Lithologic/Soil Sampling Log
- Attachment 2 Photographic Log
- Attachment 3 Laboratory Analytical Reports

FIGUR







TABLES

Table 1

Soil Analytical Results Pierce Canyon 17 TB Incident Number NRM2015454866 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Samples										
BH03	07/16/2020	0.5	< 0.0998	15.9	6,600	901	417	7,500	7,920	126
BH03A	07/16/2020	2	< 0.0996	80.8	6,880	1,200	434	8,080	8,510	467
BH03B	07/17/2020	3	< 0.00500	8.78	4,250	571	228	4,820	5,050	462
BH03C	01/07/2021	4	0.0123	2.88	<49.8	575	63.7	575	639	85.6

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

Released to Imaging: 6/30/2021 2:34:55 PM

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard Greyed data represents samples that were excavated

Received by OCD · 2/12/2021 8 · 24 · 17 AM

	by OCI		2021	<u>8:24:17 A</u>	44					5	Pag
					WS	P USA			BH or PH Name: BH03		ate:
				-			treat		Site Name: PLU PC 17 TE		/16 - 7/17/2020, 1/7/2021
508 West Stevens Street Carlsbad, New Mexico 88220							RP or Incident Number: NR		866		
							LTE Job Number: TE01292		* * *		
		LITH	OLOO	GIC / SOII	L SAMPI	LING LO)G		Logged By: FS and TC	I	Method: HVAC, Hammer Drill and Core Drill
Lat/Loi	ng: 32.1242	33, -103.8	95873		Field Scree	-			Hole Diameter: 2.5 inches	T	otal Depth: 4 ft bgs
Comm	ents: Chlori	de screeni	nge wer	e conducted w	Hach chlor	ide strips, F	PID of soil to d	lictilled wate	r. Reported values include a	40% correct	ion factor
	Same as abc		ligs wei	e conducted w	iui a 1. 4 uii		01 3011 10 0	iistineu wate	r. Reported values menude a	4070 concer	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lith	nology/Ren	marks
М	436	1,042	Y	BH03	0.5	0 	SP	SAND, d caliche g	ravel, tan-off white, po	oorly grade oorly conso SAA	ed, fine-very fine, abundant olidated
D	436	1,530	Ν		-	1	SM	SILTY sa	and, dry, light brown-b	rown, coh	nesive, low plasticity
D	436	883.5	N	BH03A	2	2	CCHE	CALICH	E, dry, tan-off white, v	vell-conso	olidated, some silt
D	868	1,204	N	BH03B	3	3	CCHE			SAA	
D	683	32.3	N	BH03C	4	- 4	CCHE			SAA	
\leq							TD @ 4	4.0.1			

wsp

	PHOTOGRAPHIC LOG	
XTO ENERGY, Inc.	Pierce Canyon 17 TB	TE012920085
	Eddy County, New Mexico	

Photo No.	Date	
1	January 7, 2021	
Southwestern o	corner of the tank	
	ment where BH03	
was ac	lvanced.	

.

wsp

PHOTOGRAPHIC LOG					
XTO ENERGY, Inc.	Pierce Canyon 17 TB	TE012920085			
	Eddy County, New Mexico				

Photo No.	Date	
3	January 7, 2021	
Drilling advar	ncement at BH03.	

hoto No.	Date
4	January 7, 2021
r repair of cu	It opening at BH03.

.

Xenco

Project Id:012920085Contact:Dan Moir

Project Location: Eddy County

Certificate of Analysis Summary 667503

LT Environmental, Inc., Arvada, CO

Project Name: PLU PC 17 TB

 Date Received in Lab:
 Thu 07.16.2020 17:25

 Report Date:
 07.17.2020 19:13

Project Manager: Jessica Kramer

	Lab Id:	667503-0	001	667503-0	02		
Anglusia Deguested	Field Id:	BH03		BH034	4		
Analysis Requested	Depth:	0.5- ft		2- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	07.16.2020 09:23		07.16.2020	09:37		
BTEX by EPA 8021B	Extracted:	07.17.2020 10:42		07.17.2020	10:42		
	Analyzed:	07.17.2020 15:58		07.17.2020	16:20		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.0998	0.0998	< 0.0996	0.0996		
Toluene		0.467	0.399	3.00	0.398		
Ethylbenzene		1.25	0.399	5.98	0.398		
m,p-Xylenes		8.95	0.798	56.1	0.797		
o-Xylene		5.22	0.399	15.7	0.398		
Total Xylenes		14.2	0.399	71.8	0.398		
Total BTEX		15.9	0.0998	80.8	0.0996		
Chloride by EPA 300	Extracted:	07.17.2020	13:00	07.17.2020	13:00		
	Analyzed:	07.17.2020	14:57	07.17.2020	15:14		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		126	9.94	467	10.1		
TPH by SW8015 Mod	Extracted:	07.17.2020	14:30	07.17.2020	14:30		
	Analyzed:	07.17.2020	16:40	07.17.2020	16:40		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		901	249	1200	249		
Diesel Range Organics (DRO)		6600	249	6880	249		
Motor Oil Range Hydrocarbons (MRO)		417	249	434	249		
Total GRO-DRO		7500	249	8080	249		
Total TPH		7920	249	8510	249		

BRL - Below Reporting Limit

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

Jession Vramer

Page 1 of 13

🛟 eurofins

Xenco

Analytical Report 667503

Page 31 of 67

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU PC 17 TB

012920085

07.17.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)

Xenco

07.17.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 667503 PLU PC 17 TB 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) 667503. 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. 667503 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,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

Xenco

Sample Cross Reference 667503

PLU PC 17 TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH03	S	07.16.2020 09:23	0.5 ft	667503-001
BH03A	S	07.16.2020 09:37	2 ft	667503-002

.

Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU PC 17 TB

 Project ID:
 012920085

 Work Order Number(s):
 667503

Report Date:07.17.2020Date Received:07.16.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Xenco

LT Environmental, Inc., Arvada, CO PLU PC 17 TB

Sample Id:BH03Lab Sample Id:667503-001	Matrix: Soil Date Collected: 07.16.2020 09:23				Date Received:07.16.2020 17:25 Sample Depth: 0.5 ft			
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	0P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Pr	rep: 07.17	.2020 13:00		Basis: Wet	Weight	
Seq Number: 3132011								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	126	9.94		mg/kg	07.17.2020 14:57		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH	5 Mod					Prep Method: SW8 % Moisture:	3015P	
		Date Pr	rep: 07.17	2.2020 14:30		Basis: Wet	Weight	
Seq Number: 3132010	Cas Number	Date Pr Result	rep: 07.17 RL	2.2020 14:30	Units	Basis: Wet Analysis Date	Weight Flag	Dil
Seq Number: 3132010 Parameter	Cas Number PHC610			2.2020 14:30	Units mg/kg		C	Dil
Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO)		Result	RL	/.2020 14:30		Analysis Date	C	
	PHC610	Result 901	RL 249	2.2020 14:30	mg/kg	Analysis Date 07.17.2020 16:40	C	5
Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO	Result 901 6600	RL 249 249	2.2020 14:30	mg/kg mg/kg	Analysis Date 07.17.2020 16:40 07.17.2020 16:40	C	5 5
Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	Result 901 6600 417	RL 249 249 249 249	2.2020 14:30	mg/kg mg/kg mg/kg	Analysis Date 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40	C	5 5 5
Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 901 6600 417 7500	RL 249 249 249 249 249 249	Units	mg/kg mg/kg mg/kg mg/kg	Analysis Date 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40	C	5 5 5 5
Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 901 6600 417 7500 7920	RL 249 249 249 249 249 249 249		mg/kg mg/kg mg/kg mg/kg	Analysis Date 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 Analysis Date	Flag	5 5 5 5

.

Xenco

Certificate of Analytical Results 667503

LT Environmental, Inc., Arvada, CO PLU PC 17 TB

Sample Id: BH03 Lab Sample Id: 667503-001		Matrix: Date Collecte	Soil d: 07.16.2020 09:23	Date Received:07.16.2020 17:2 Sample Depth: 0.5 ft	
Analytical M Tech:	ethod: BTEX by EPA 8021B MAB			Prep Method: % Moisture:	SW5035A
Analyst: Seq Number:	MAB 3132013	Date Prep:	07.17.2020 10:42	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0998	0.0998		mg/kg	07.17.2020 15:58	U	200
Toluene	108-88-3	0.467	0.399		mg/kg	07.17.2020 15:58		200
Ethylbenzene	100-41-4	1.25	0.399		mg/kg	07.17.2020 15:58		200
m,p-Xylenes	179601-23-1	8.95	0.798		mg/kg	07.17.2020 15:58		200
o-Xylene	95-47-6	5.22	0.399		mg/kg	07.17.2020 15:58		200
Total Xylenes	1330-20-7	14.2	0.399		mg/kg	07.17.2020 15:58		200
Total BTEX		15.9	0.0998		mg/kg	07.17.2020 15:58		200
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	07.17.2020 15:58		
4-Bromofluorobenzene		460-00-4	105	%	70-130	07.17.2020 15:58		
Xenco

Certificate of Analytical Results 667503

LT Environmental, Inc., Arvada, CO PLU PC 17 TB

Sample Id:BH03ALab Sample Id:667503-002		Matrix: Date Co	Soil llected: 07.16	.2020 09:37		Date Received:07.16.2020 17:25 Sample Depth: 2 ft				
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	0P			
Tech: MAB						% Moisture:				
Analyst: MAB		Date Pre	p: 07.17	.2020 13:00		Basis: Wet	Weight			
Seq Number: 3132011										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	467	10.1		mg/kg	07.17.2020 15:14		1		
A = alastic al Masthe d. TDU has CW001	5 M - J					Due Mathal CW	00150			
Analytical Method:TPH by SW801.Tech:DTHAnalyst:DTHSeq Number:3132010	5 Mod	Date Pre	ep: 07.17	.2020 14:30		Prep Method: SW3 % Moisture: Basis: Wet	8015P Weight			
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Pre Result	p: 07.17 RL	.2020 14:30	Units	% Moisture:		Dil		
Tech: DTH Analyst: DTH Seq Number: 3132010 Parameter			r.	.2020 14:30	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil 5		
Tech:DTHAnalyst:DTHSeq Number:3132010	Cas Number	Result	RL	.2020 14:30		 Moisture: Basis: Wet Analysis Date 	Weight			
Tech: DTH Analyst: DTH Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 1200	RL 249	.2020 14:30	mg/kg	% Moisture: Basis: Wet Analysis Date 07.17.2020 16:40	Weight	5		
Tech: DTH Analyst: DTH Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 1200 6880	RL 249 249	.2020 14:30	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.17.2020 16:40 07.17.2020 16:40	Weight	5 5		
Tech: DTH Analyst: DTH Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 1200 6880 434	RL 249 249 249 249	.2020 14:30	mg/kg mg/kg mg/kg	Moisture: Basis: Wet Analysis Date 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40	Weight	5 5 5		
Tech: DTH Analyst: DTH Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 1200 6880 434 8080 8510	RL 249 249 249 249 249	.2020 14:30 Units	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40	Weight	5 5 5 5		
Tech: DTH Analyst: DTH Seq Number: 3132010 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DR0 PHCG2835 PHC628 PHC635	Result 1200 6880 434 8080 8510	RL 249 249 249 249 249 249 249		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 07.17.2020 16:40 s: Analysis Date	Weight Flag Flag	5 5 5 5		

Xenco

Certificate of Analytical Results 667503

LT Environmental, Inc., Arvada, CO PLU PC 17 TB

Sample Id: BH0	3A	Matrix:	Soil	Date Received	1:07.16.2020 17:	25
Lab Sample Id: 6675	03-002	Date Collected	: 07.16.2020 09:37	Sample Depth	: 2 ft	
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A	
Tech: MAB				% Moisture:		
Analyst: MAB		Date Prep:	07.17.2020 10:42	Basis:	Wet Weight	
Seq Number: 31320)13					
Parameter	Cas Number	Result RL	Units	Analysis D	ate Flag	Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0996	0.0996		mg/kg	07.17.2020 16:20	U	200
Toluene	108-88-3	3.00	0.398		mg/kg	07.17.2020 16:20		200
Ethylbenzene	100-41-4	5.98	0.398		mg/kg	07.17.2020 16:20		200
m,p-Xylenes	179601-23-1	56.1	0.797		mg/kg	07.17.2020 16:20		200
o-Xylene	95-47-6	15.7	0.398		mg/kg	07.17.2020 16:20		200
Total Xylenes	1330-20-7	71.8	0.398		mg/kg	07.17.2020 16:20		200
Total BTEX		80.8	0.0996		mg/kg	07.17.2020 16:20		200
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	07.17.2020 16:20		
1,4-Difluorobenzene		540-36-3	96	%	70-130	07.17.2020 16:20		

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ble Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

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

Xenco

LT Environmental, Inc. PLU PC 17 TB

]	PLU PC 1	7 TB						
Analytical Method: Seq Number: MB Sample Id:	Chloride by 3132011 7707602-1-1)0		Matrix: nple Id:	Solid 7707602-2	I-BKS			ep Metho Date Pre D Sample	ep: 07.1	0P 17.2020 7602-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	255	102	266	106	90-110	4	20	mg/kg	07.17.2020 14:46	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by 3132011 667503-001)0		Matrix: nple Id:	Soil 667503-00)1 S			rep Metho Date Pre D Sample	ep: 07.1	0P 17.2020 503-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		126	200	335	105	330	102	90-110	2	20	mg/kg	07.17.2020 15:03	
Analytical Method: Seq Number: MB Sample Id:	TPH by SW 3132010 7707598-1-1		od		Matrix: nple Id:	Solid 7707598-1	I-BKS			ep Metho Date Pre D Sample	ep: 07.1	8015P 17.2020 7598-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	1010	101	1000	100	70-135	1	35	mg/kg	07.17.2020 14:31	
Diesel Range Organics	(DRO)	< 50.0	1000	1150	115	1130	113	70-135	2	35	mg/kg	07.17.2020 14:31	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		114		1	24		125		70	-135	%	07.17.2020 14:31	
o-Terphenyl		112		1	17		118		70	-135	%	07.17.2020 14:31	
Analytical Method: Seq Number:	TPH by SW 3132010	V8015 M	od		Matrix: nple Id:	Solid 7707598-1	I-BLK		Pr	ep Metho Date Pre		8015P 17.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	07.17.2020 14:10	
Analytical Method:	TPH by SW	V8015 M	od		Matuinu	G - 11			Pı	ep Metho		8015P	

Seq Number:	3132010]	Matrix:	Soil				Date Pr	ep: 07.1	7.2020	
Parent Sample Id:	667506-00)1		MS San	nple Id:	667506-00	01 S		MS	D Sample	e Id: 667	506-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocar	bons (GRO)	< 50.0	999	915	92	940	94	70-135	3	35	mg/kg	07.17.2020 15:34	
Diesel Range Organics	(DRO)	< 50.0	999	1020	102	1050	105	70-135	3	35	mg/kg	07.17.2020 15:34	
Surrogate					1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	18		122		70	-135	%	07.17.2020 15:34	
o-Terphenyl				1	08		110		70	-135	%	07.17.2020 15:34	
MS/MSD Percent Recover	erv	[D] = 100*(C	-A) / B				L	CS = Labora	tory Contro	ol Sample	MS = 1	Matrix Spike	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

Page 11 of 13

```
Final 1.000
```

QC Summary 667503

Flag

Curofins Xenco

LT Environmental, Inc. PLU PC 17 TB

Analytical Method:	BTEX by EPA 8021	В						Pi	ep Meth	od: SW	5035A
Seq Number:	3132013]	Matrix:	Solid				Date Pr	ep: 07.1	17.2020
MB Sample Id:	7707605-1-BLK		LCS San	nple Id:	7707605-	1-BKS		LCS	D Sample	e Id: 770	7605-1-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	0.112	112	0.118	118	70-130	5	35	mg/kg	07.17.2020 11:38
Toluene	< 0.00200	0.100	0.108	108	0.114	114	70-130	5	35	mg/kg	07.17.2020 11:38
Ethylbenzene	< 0.00200	0.100	0.103	103	0.109	109	71-129	6	35	mg/kg	07.17.2020 11:38
m,p-Xylenes	< 0.00400	0.200	0.209	105	0.220	110	70-135	5	35	mg/kg	07.17.2020 11:38
o-Xylene	< 0.00200	0.100	0.101	101	0.107	107	71-133	6	35	mg/kg	07.17.2020 11:38
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date
1,4-Difluorobenzene	98		9	99		100		70	-130	%	07.17.2020 11:38
4-Bromofluorobenzene	99		9	98		102		70	-130	%	07.17.2020 11:38

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3132013 667506-001	B		Matrix: nple Id:	Soil 667506-00	01 S			rep Metho Date Pr D Samplo	ep: 07.1	5035A .7.2020 506-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.125	125	0.121	121	70-130	3	35	mg/kg	07.17.2020 12:21	
Toluene	< 0.00200	0.0998	0.118	118	0.113	113	70-130	4	35	mg/kg	07.17.2020 12:21	
Ethylbenzene	< 0.00200	0.0998	0.110	110	0.105	105	71-129	5	35	mg/kg	07.17.2020 12:21	
m,p-Xylenes	< 0.00399	0.200	0.222	111	0.212	106	70-135	5	35	mg/kg	07.17.2020 12:21	
o-Xylene	< 0.00200	0.0998	0.108	108	0.103	103	71-133	5	35	mg/kg	07.17.2020 12:21	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		99		70	-130	%	07.17.2020 12:21	
4-Bromofluorobenzene			1	03		98		70	-130	%	07.17.2020 12:21	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

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

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

.

Page 12 of 13

	-	onstitutes a valid purchase order from client company to Xenco, its affiliates and subcontractor I not assume any responsibility for any losses or expenses incurred by the client if such losses and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se		12 1260 02/91/	Intrine Date Time Depth Image: Stampled 2 2 2 2 3 3 4	Yes N/A Correction Factor: -O. Z Correction Yes No N/A Total Containers: D C	SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No Temperature (°C): 3.0/1.8 Thermometer ID Received Intact: Yes No TWW 007 III	Quote #	Sampler's Name: Fortimo Smith Due Date:	012920085 Routine code		(432) 2.36-3849 Email: Femith@(tenv.com, dmo)	midland, TX 79705 City, State ZIP: Carlsba	3300 North & Street Address: 3104 E Greene S	TOE	Pr main	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 Crasibad, NM (432) 704-5440 Phoenix.AZ (480) 355-0900 Atlanta.GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
Revised Date 022619 Rev. 2019.1	(Signature) Received by: (Signature) Date/Time	 It assigns standard terms and conditions are due to circumstances beyond the control enforced unless previously negotiated. 	Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Mn Mo Ni Se Ag TI U 1631/245.1/7470 /7471 : Hg			Sample Comments	TAT starts the day received by the lab, if received by 4:00pm	HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn	H2S04: H2	HNO3: HN	MeOH: Me	ANALYSIS REQUEST Preservative Codes	rco.(Hony.com) Deliverables: EDDADaP1Other:	Reporting:Level II Level III PST/UST	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comr	3334 NM (432) 704-5440 ch, FL (561) 689-6701 <u>www.xenco.com</u> Page of

Final 1.000

Project Id:

Project Location:

Contact:

eurofins Environment Testing Xenco

012920085

Dan Moir

Eddy County

Certificate of Analysis Summary 667955

LT Environmental, Inc., Arvada, CO

Project Name: PLU PC 17 TB

 Date Received in Lab:
 Wed 07.22.2020 16:32

 Report Date:
 07.23.2020 13:24

 Project Manager:
 Jessica Kramer

	Lab Id:	667955-001			
Analysis Paguastad	Field Id:	BH03B			
Analysis Requested	Depth:	3- ft			
	Matrix:	SOIL			
	Sampled:	07.17.2020 08:36			
BTEX by EPA 8021B	Extracted:	07.22.2020 17:00			
	Analyzed:	07.22.2020 22:17			
	Units/RL:	mg/kg R			
Benzene		<0.00500 0.0050			
Toluene		0.441 0.020	0		
Ethylbenzene		0.432 0.020			
m,p-Xylenes		6.12 0.04			
o-Xylene		1.79 0.020			
Total Xylenes		7.91 0.020	0		
Total BTEX		8.78 0.005	0		
Chloride by EPA 300	Extracted:	07.22.2020 17:54			
	Analyzed:	07.23.2020 05:29			
	Units/RL:	mg/kg R	_		
Chloride		462 9.9	6		
TPH by SW8015 Mod	Extracted:	07.22.2020 16:50			
	Analyzed:	07.22.2020 19:20			
	Units/RL:	mg/kg R	_		
Gasoline Range Hydrocarbons (GRO)		571 50	2		
Diesel Range Organics (DRO)		4250 50	2		
Motor Oil Range Hydrocarbons (MRO)		228 50	2		
Total GRO-DRO		4820 50	2		
Total TPH		5050 50	2		

BRL - Below Reporting Limit

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

Jession Vramer

Page 1 of 12

eurofins Environment Testing Xenco

Analytical Report 667955

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU PC 17 TB

012920085

07.23.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

07.23.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 667955 PLU PC 17 TB 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) 667955. 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. 667955 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,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

eurofins Environment Testing Xenco

Sample Cross Reference 667955

LT Environmental, Inc., Arvada, CO

PLU PC 17 TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH03B	S	07.17.2020 08:36	3 ft	667955-001

Environment Testing Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU PC 17 TB

 Project ID:
 012920085

 Work Order Number(s):
 667955

Report Date: 07.23.2020 Date Received: 07.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins Environment Testing

Environment Testir Xenco

Certificate of Analytical Results 667955

LT Environmental, Inc., Arvada, CO PLU PC 17 TB

Sample Id: BH03B Lab Sample Id: 667955-001		Matrix Date C	: Soil ollected: 07.17	7.2020 08:36		Date Received:07.22.2020 16:32 Sample Depth: 3 ft				
Analytical Method: Chloride by EPA Tech: MAB	A 300					Prep Method: E300 % Moisture:	P			
Analyst: MAB		Date P	rep: 07.22	2.2020 17:54		Basis: Wet	Weight			
Seq Number: 3132399										
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	462	9.96		mg/kg	07.23.2020 05:29		1		
Analytical Method:TPH by SW8013Tech:DTHAnalyst:DTHSeq Number:3132405	5 Mod	Date Pr	rep: 07.22	2.2020 16:50		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight			
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil		
Gasoline Range Hydrocarbons (GRO)	PHC610	571	50.2		mg/kg	07.22.2020 19:20		1		
Diesel Range Organics (DRO)	C10C28DRO	4250	50.2		mg/kg	07.22.2020 19:20		1		
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	228	50.2		mg/kg	07.22.2020 19:20		1		
Total GRO-DRO	PHC628	4820	50.2		mg/kg	07.22.2020 19:20		1		
Total TPH	PHC635	5050	50.2		mg/kg	07.22.2020 19:20		1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	125	%	70-135	07.22.2020 19:20				
o-Terphenyl		84-15-1	112	%	70-135	07.22.2020 19:20				

eurofins Environment Testing Xenco

Certificate of Analytical Results 667955

LT Environmental, Inc., Arvada, CO PLU PC 17 TB

Sample Id:	BH03B	Mat	rix:	Soil		Date Received	1:07.22.2020 16	:32
Lab Sample Id	l: 667955-001	Date	e Collected	: 07.17.2020 08:36		Sample Depth	: 3 ft	
Analytical Me	thod: BTEX by EPA 8021B					Prep Method:	SW5035A	
Tech:	MAB					% Moisture:		
Analyst:	MAB	Date	e Prep:	07.22.2020 17:00		Basis:	Wet Weight	
Seq Number:	3132403							
Damanatan	Cos Num	Dogult	ы		.			D ''

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00500	0.00500		mg/kg	07.22.2020 22:17	U	1
Toluene	108-88-3	0.441	0.0200		mg/kg	07.22.2020 22:17		1
Ethylbenzene	100-41-4	0.432	0.0200		mg/kg	07.22.2020 22:17		1
m,p-Xylenes	179601-23-1	6.12	0.0400		mg/kg	07.22.2020 22:17		1
o-Xylene	95-47-6	1.79	0.0200		mg/kg	07.22.2020 22:17		1
Total Xylenes	1330-20-7	7.91	0.0200		mg/kg	07.22.2020 22:17		1
Total BTEX		8.78	0.00500		mg/kg	07.22.2020 22:17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	130	%	70-130	07.22.2020 22:17		
1,4-Difluorobenzene		540-36-3	96	%	70-130	07.22.2020 22:17		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. ND	Not Detected.		
RL Reporting Limit			
MDL Method Detection Limit SD	L Sample Detection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit MC	QL Method Quantitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit			
NC Non-Calculable			
SMP Client Sample	BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory Con	trol Sample BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sample D	uplicate MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered for t	his compound.		

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

Xenco

Environment Testing

🔅 eurofins

QC Summary 667955

LT Environmental, Inc. PLU PC 17 TB

PLU PC

Analytical Method: Seq Number: MB Sample Id:	Chloride b 3132399 7707895-1-	-	00		Matrix: nple Id:	Solid 7707895-	I-BKS			ep Metho Date Pro D Sample	ep: 07.2	0P 22.2020 7895-1-BSD	
Parameter		MB	Spike	LCS Description		LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result <10.0	Amount 250	Result 261	%Rec 104	Result 269	%Rec 108	90-110	3	Limit 20	mg/kg	Date 07.23.2020 02:58	
				201	101	207	100	<i>y</i> 0 110					
Analytical Method: Seq Number:	Chloride b 3132399	y EPA 30	00		Matrix:	Soil			Pı	ep Metho Date Pro		0P 22.2020	
Parent Sample Id:	667904-050)			nple Id:		50 S		MS		-	904-050 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		7470	201	7680	104	7670	101	90-110	0	20	mg/kg	07.23.2020 03:15	
Analytical Method: Seq Number: Parent Sample Id:	Chloride b 3132399 667904-060	-	00		Matrix: nple Id:	Soil 667904-00	50 S			ep Metho Date Pro D Sample	ep: 07.2	0P 22.2020 904-060 SD	
Parameter		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result 129	Amount 200	Result 338	%Rec 105	Result 338	%Rec 105	90-110	0	Limit 20	mg/kg	Date 07.23.2020 04:33	
Analytical Method: Seq Number: MB Sample Id:	TPH by SV 3132405 7707899-1-		od		Matrix: nple Id:	Solid 7707899-	I-BKS			ep Metho Date Pro D Sample	ep: 07.2	8015P 22.2020 7899-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Gasoline Range Hydrocarb	ons (GRO)	Result <50.0	Amount	Result 935	%Rec 94	Result 1010	%Rec	70-135	8	Limit 35	ma/lea	Date 07.22.2020 10:11	
Diesel Range Organics		<50.0	1000 1000	1040	94 104	1120	101 112	70-135	8 7	35	mg/kg mg/kg	07.22.2020 10:11	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		108			22		126			-135	%	07.22.2020 10:11 07.22.2020 10:11	
o-Terphenyl Analytical Method: Seq Number:	TPH by SV 3132405	109 V8015 M	od		10 Matrix:	Solid 7707899-1	118 BI K			-135 rep Metho Date Pro		8015P 22.2020	
D				MB	p-0 10.						Units	Analysis	Flor
Parameter	1 0.55			Result								Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	07.22.2020 09:50	

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

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

.

Page 9 of 12

Xenco

🔅 eurofins

QC Summary 667955

Prep Method: SW8015P

LT Environmental, Inc. PLU PC 17 TB

Environment Testing

Seq Number:	3132405			I	Matrix:	Soil				Date Pr	ep: 07.2	22.2020	
Parent Sample Id:	667902-00)7		MS San	nple Id:	667902-00)7 S		MS	D Sample	e Id: 667	902-007 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocar	bons (GRO)	< 50.0	1000	863	86	878	88	70-135	2	35	mg/kg	07.22.2020 14:42	
Diesel Range Organics	(DRO)	<50.0	1000	978	98	959	96	70-135	2	35	mg/kg	07.22.2020 14:42	
Surrogate				M %I	IS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1-Chlorooctane				11	15		117	,	70	-135	%	07.22.2020 14:42	
o-Terphenyl				11	10		105	i	70	-135	%	07.22.2020 14:42	

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5035A	
Seq Number:	3132403			Matrix:	Solid				Date Pr	ep: 07.2	22.2020	
MB Sample Id:	7707875-1-BLK		LCS San	nple Id:	7707875-	1-BKS		LCS	D Sample	e Id: 770	7875-1-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	0.115	115	0.122	122	70-130	6	35	mg/kg	07.22.2020 15:28	
Toluene	< 0.00200	0.100	0.110	110	0.116	116	70-130	5	35	mg/kg	07.22.2020 15:28	
Ethylbenzene	< 0.00200	0.100	0.102	102	0.108	108	71-129	6	35	mg/kg	07.22.2020 15:28	
m,p-Xylenes	< 0.00400	0.200	0.206	103	0.218	109	70-135	6	35	mg/kg	07.22.2020 15:28	
o-Xylene	< 0.00200	0.100	0.102	102	0.108	108	71-133	6	35	mg/kg	07.22.2020 15:28	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		1	00		100	1	70	-130	%	07.22.2020 15:28	
4-Bromofluorobenzene	103		1	02		102		70	-130	%	07.22.2020 15:28	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3132403 667902-007	lB		Matrix: nple Id:	Soil 667902-00	07 S			rep Metho Date Pro D Sample	ep: 07.2	5035A 22.2020 902-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.125	126	0.113	113	70-130	10	35	mg/kg	07.22.2020 16:32	
Toluene	< 0.00199	0.0996	0.117	117	0.106	106	70-130	10	35	mg/kg	07.22.2020 16:32	
Ethylbenzene	< 0.00199	0.0996	0.110	110	0.0989	99	71-129	11	35	mg/kg	07.22.2020 16:32	
m,p-Xylenes	< 0.00398	0.199	0.224	113	0.200	101	70-135	11	35	mg/kg	07.22.2020 16:32	
o-Xylene	< 0.00199	0.0996	0.110	110	0.0985	99	71-133	11	35	mg/kg	07.22.2020 16:32	
Surrogate				IS Rec	MS Flag	MSD %Red			imits	Units	Analysis Date	
1,4-Difluorobenzene			9	9		98		70	-130	%	07.22.2020 16:32	

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

4-Bromofluorobenzene

[D] = 100*(C-A) / B $\begin{array}{l} \text{[D]} & = 100 \ (\text{C-E}) \ (\text{C-E}) \ | \\ \text{[D]} & = 100 \ (\text{C}) \ (\text{B}) \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} \ - \text{Log(Original Sample)} \end{array}$ LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

100

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

.

07.22.2020 16:32

Page 10 of 12

103

70-130

%

			0			by O
			101 101 10-20-		41	CD:
ature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	ate/ III	I I I I A	alt 11 in the	2/1
	nd the control gotiated.	client if such losses are due to circumstances beyond the control These terms will be enforced unless previously negotiated.	uboses or expenses incurred by the client abmitted to Xenco, but not analyzed. Thes	Ch project and a charge of \$5 for each sample s	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 Relininguished by: (Signature)	
	nd conditions	I subcontractors. It assigns standard terms and	client company to Xenco, its affiliates and	amples constitutes a valid purchase order from and shall not assume any responsibility for any	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of Service. Xenco will be flable only for the cost of samples and shall not assume any responsibility for any losses or company to Xenco.	_
Ag SiO2 Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg	K Se	3 Cd Ca Cr Co Cu Fe Pb Mg I r Co Cu Pb Mn Mo Ni Se Ag 1	Texas 11 Al Sb As Ba Be B BRCRA Sb As Ba Be Cd Cr	alyzed TCLP / SPLP 6010: 8RCRA	Circle Method(S) and Metal(S) to be analyzed	:2 4:17
			7			
						T
						T
				X	and	
					1 A	
					4	
				S 0500 03/11/1		Π
Sample Comments			- Num	Sampled Sampled	RHORR MAILIN	0
IAT starts the day received by the lab, if received by 4:00pm	-		PH (EX	Date Time	Yes No	Lab
TAT I AVEIAIET NAUTI, ZII			fCo El	0	Yes No	T
NaOH: Na			PA EPA	-1	. No	
HCL: HL			80	Thermometer ID	Temperature (°C): (, Le] {, L	
H2S04: H2			 	the his man	T	
HNO3: HN			20	Quote #:	PO#	
None: NO				Rush: 24	ng	
Manu-			Code	B Routine		
Preservative Codes	EST	ANALYSIS REQUEST		TP Turn Around	Project Name: PLU PC 17	Т
ADaPT Other:	Deliverables: EDD	dinoira Henvicon	nithaltenv.com,	Serry Email (Smrtha	Phone: (102)230-	٦٢
Reporting:Level II CLevel III PST/UST TRRP Level IV	Reporting:Level II Level III	1, NM 88220	city, State ZIP: Carloboc	COLD	1111010	
	State of Project:	School St	Address: BIOHE (in A Street	3020	Т
Program: UST/PST PRP Brownfields RRC Superfund	Program: UST/PST PRP	pray, Inc.	XTO Er	Linc, Hormion Office	35	T
Comments		Hrell	Bill to: (if different) Kylo Li	-	icon	T
Loom Page 1 of	89-6701 www.xenco.com	Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701	nta,GA (770) 449-8800 Tampa,FL (81:)	
Work Order No: Levet 95		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 CrasIbad. NM (432) 704-5440	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 132) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasibad. NM (4	Houston,TX (2 Midland,TX (432) 704-5440	LABORATORI	age 53 o
						of 6

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 07.22.2020 04.32.00 PM	Air and Metal samples Acc	
Work Order #: 667955	Temperature Measuring de	evice used : T-NM-007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	1.4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples 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 headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Date: 07.22.2020 Elizabeth McClellan

Checklist reviewed by: Jessica Vramer

Date: 07.23.2020

Xenco

eurofins Environment Testing

Certificate of Analysis Summary 683873

Page 55 of 67

WSP USA, Dallas, TX

Project Name: PLU PC 17

Project Id: TE012920085 Joseph Hernandez **Contact:**

Project Location:

Date Received in Lab: Thu 01.07.2021 16:48 **Report Date:** 02.05.2021 10:16 Project Manager: Jessica Kramer

	Lab Id:	683873-001			
An alugia Deguested	Field Id:	BH03C			
Analysis Requested	Depth:	4- ft			
	Matrix:	SOIL			
	Sampled:	01.07.2021 10:30			
BTEX by EPA 8021B	Extracted:	01.07.2021 17:30			
	Analyzed:	01.08.2021 04:43			
	Units/RL:	mg/kg RL			
Benzene		0.0123 0.00990			
Toluene		0.289 0.00990			
Ethylbenzene		0.158 0.00990			
m,p-Xylenes		1.91 0.0198			
o-Xylene		0.514 0.00990			
Total Xylenes		2.42 0.00990			
Total BTEX		2.88 0.00990			
Chloride by EPA 300	Extracted:	01.07.2021 18:10			
	Analyzed:	01.08.2021 08:15			
	Units/RL:	mg/kg RL			
Chloride		85.6 10.0			
TPH by SW8015 Mod	Extracted:	01.07.2021 17:00			
	Analyzed:	01.08.2021 02:14			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8			
Diesel Range Organics (DRO)		575 49.8			
Motor Oil Range Hydrocarbons (MRO)		63.7 49.8			
Total GRO-DRO		575 49.8			
Total TPH		639 49.8			

BRL - Below Reporting Limit

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

Jession Vramer

Page 1 of 12

eurofins Environment Testing Xenco

Analytical Report 683873

for

WSP USA

Project Manager: Joseph Hernandez

PLU PC 17

TE012920085

02.05.2021

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 (2020-014), 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 (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

02.05.2021 Project Manager: Joseph Hernandez WSP USA 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 683873 PLU PC 17 Project Address:

Joseph Hernandez:

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) 683873. 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. 683873 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,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

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

eurofins Environment Testing Xenco

Sample Cross Reference 683873

WSP USA, Dallas, TX

PLU PC 17

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH03C	S	01.07.2021 10:30	4 ft	683873-001

Xenco

🔅 eurofins

CASE NARRATIVE

Client Name: WSP USA Project Name: PLU PC 17

Project ID: TE012920085 Work Order Number(s): 683873

Environment Testing

Report Date: 02.05.2021 Date Received: 01.07.2021

Sample receipt non conformances and comments:

V1.001 Revision (client email) Changed sample ID from SS03C to BH03C

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 683873

WSP USA, Dallas, TX

PLU PC 17	

Sample Id: BH03C Lab Sample Id: 683873-001		Matrix: Date Co	Soil ollected: 01.07	7.2021 10:30		Date Received:01.07 Sample Depth: 4 ft	Date Received:01.07.2021 16:48 Sample Depth: 4 ft					
Analytical Method: Chloride by EP	A 300					Prep Method: E300)P					
Tech: MAB												
Analyst: MAB		Date Pr	ep: 01.07	7.2021 18:10		% Moisture: Basis: Wet	X 7 · 1 /					
Seq Number: 3147128						Basis: Wet	Weight					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil				
Chloride	16887-00-6	85.6	10.0		mg/kg	01.08.2021 08:15		1				
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3147117	5 Mod	Date Pr	rep: 01.07	7.2021 17:00		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil				
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.08.2021 02:14	U	1				
Diesel Range Organics (DRO)	C10C28DRO	575	49.8		mg/kg	01.08.2021 02:14		1				
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	63.7	49.8		mg/kg	01.08.2021 02:14		1				
Total GRO-DRO	PHC628	575	49.8		mg/kg	01.08.2021 02:14		1				
Total TPH	PHC635	639	49.8		mg/kg	01.08.2021 02:14		1				
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag					
1-Chlorooctane		111-85-3	113	%	70-135	01.08.2021 02:14						
o-Terphenyl		84-15-1	104	%	70-135	01.08.2021 02:14						

Certificate of Analytical Results 683873

WSP USA, Dallas, TX PLU PC 17

Sample Id: Lab Sample Id	BH03C d: 683873-001		Matrix: Date Collected	Soil d: 01.07.2021 10:30		Date Received Sample Depth		.2021 16:4	48
Analytical Me	ethod: BTEX by EPA 802	21B				Prep Method:	SW50)35A	
Tech:	MAB								
Analyst:	MAB		Date Prep:	01.07.2021 17:30		% Moisture: Basis:	Wat	Weight	
Seq Number:	3147110					Dasis.	wei	weight	
Parameter		Cas Number	Result RL		Units	Analysis D	ate	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0123	0.00990		mg/kg	01.08.2021 04:43		1
Toluene	108-88-3	0.289	0.00990		mg/kg	01.08.2021 04:43		1
Ethylbenzene	100-41-4	0.158	0.00990		mg/kg	01.08.2021 04:43		1
m,p-Xylenes	179601-23-1	1.91	0.0198		mg/kg	01.08.2021 04:43		1
o-Xylene	95-47-6	0.514	0.00990		mg/kg	01.08.2021 04:43		1
Total Xylenes	1330-20-7	2.42	0.00990		mg/kg	01.08.2021 04:43		1
Total BTEX		2.88	0.00990		mg/kg	01.08.2021 04:43		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	70-130	01.08.2021 04:43		
1,4-Difluorobenzene		540-36-3	87	%	70-130	01.08.2021 04:43		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.				
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory C	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sample	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

QC Summary 683873

🔅 eurofins **Environment Testing** Xenco

WSP USA

PLU PC 17

						FLU FC	/ 1 /						
Analytical Method:	Chloride by	y EPA 3	00						P	rep Meth	od: E30	00P	
Seq Number:	3147128				Matrix:					Date Pr		07.2021	
MB Sample Id:	7718710-1-	BLK		LCS Sai	mple Id:	7718710-	1-BKS		LCS	D Sample	e Id: 771	8710-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	247	99	246	98	90-110	0	20	mg/kg	01.08.2021 07:45	
Analytical Method:	Chloride by	y EPA 3	00						P	rep Metho	od: E30)0P	
Seq Number:	3147128				Matrix:					Date Pr		07.2021	
Parent Sample Id:	683825-004	Ļ		MS Sai	mple Id:	683825-0	04 S		MS	D Sample	e Id: 683	825-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		19.9	200	213	97	212	96	90-110	0	20	mg/kg	01.08.2021 08:03	
Analytical Method: Seq Number:	3147128		00		Matrix:	Soil 683825-0	14 5			rep Metho Date Pro	ep: 01.0	07.2021	
Parent Sample Id:	683825-014									-		825-014 SD	
Parameter		Parent Result <9.94	Spike Amount 199	MS Result 193	MS %Rec 97	MSD Result 192	MSD %Rec 97	Limits 90-110	%RPD	RPD Limit 20	Units	Analysis Date 01.08.2021 09:32	Flag
Chloride		0.04	177	175	71	172	,,	50 110	1	20	mg/kg		
Analytical Method: Seq Number:	TPH by SV 3147117	V8015 M	od		Matrix:	Solid				rep Metho Date Pro	ep: 01.0	78015P 07.2021	
MB Sample Id:	7718698-1-	BLK		LCS Sat	nple Id:	7718698-	1-BKS		LCS	D Sample	e Id: 771	8698-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	1040	104	1080	108	70-135	4	35	mg/kg	01.07.2021 23:13	
Diesel Range Organics	(DRO)	<50.0	1000	990	99	1090	109	70-135	10	35	mg/kg	01.07.2021 23:13	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		101		1	16		115		70	-135	%	01.07.2021 23:13	
o-Terphenyl		103		1	04		110)	70	-135	%	01.07.2021 23:13	
Analytical Method:	TPH by SV	V8015 M	od						P	rep Metho		8015P	
Seq Number:	3147117				Matrix: nple Id:	Solid 7718698-	1-BLK			Date Pr	ep: 01.0	07.2021	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	01.07.2021 22:53	

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

[D] = 100*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[(\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$ LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

.

Page 9 of 12

```
Final 1.001
```

Хепсо

Environment Testing

🔅 eurofins

QC Summary 683873

WSP USA

PLU PC 17

Analytical Method:	TPH by SV	V8015 M	od						Pi	rep Metho	od: SW	8015P	
Seq Number:	3147117			1	Matrix:	Soil				Date Pr	ep: 01.0	07.2021	
Parent Sample Id:	683730-061	l		MS San	nple Id:	683730-06	51 S		MS	D Sample	e Id: 683	730-061 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.0	999	1160	116	1050	105	70-135	10	35	mg/kg	01.08.2021 00:14	
Diesel Range Organics ((DRO)	<50.0	999	1050	105	1140	114	70-135	8	35	mg/kg	01.08.2021 00:14	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	12		107		70	-135	%	01.08.2021 00:14	
o-Terphenyl				10	06		118		70	-135	%	01.08.2021 00:14	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3147110]	Matrix:	Solid				Date Pr	ep: 01.0	07.2021	
MB Sample Id:	7718714-1-BLK		LCS San	nple Id:	7718714-1	I-BKS		LCS	D Sample	e Id: 771	8714-1-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	0.0965	97	0.0993	99	70-130	3	35	mg/kg	01.08.2021 00:49	
Toluene	< 0.00200	0.100	0.0931	93	0.0963	96	70-130	3	35	mg/kg	01.08.2021 00:49	
Ethylbenzene	< 0.00200	0.100	0.0862	86	0.0886	89	71-129	3	35	mg/kg	01.08.2021 00:49	
m,p-Xylenes	< 0.00400	0.200	0.176	88	0.180	90	70-135	2	35	mg/kg	01.08.2021 00:49	
o-Xylene	< 0.00200	0.100	0.0878	88	0.0902	90	71-133	3	35	mg/kg	01.08.2021 00:49	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	98		9	94		94		70	-130	%	01.08.2021 00:49	
4-Bromofluorobenzene	88		8	37		86		70	-130	%	01.08.2021 00:49	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3147110 683730-061	1B	MS Sar	Matrix: nple Id:	Soil 683730-06	51 S			rep Methe Date Pr D Sample	ep: 01.0	5035A)7.2021 730-061 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.114	114	0.106	106	70-130	7	35	mg/kg	01.08.2021 01:34	
Toluene	< 0.00200	0.100	0.110	110	0.100	100	70-130	10	35	mg/kg	01.08.2021 01:34	
Ethylbenzene	< 0.00200	0.100	0.102	102	0.0915	92	71-129	11	35	mg/kg	01.08.2021 01:34	
m,p-Xylenes	< 0.00401	0.200	0.209	105	0.188	94	70-135	11	35	mg/kg	01.08.2021 01:34	
o-Xylene	< 0.00200	0.100	0.105	105	0.0928	93	71-133	12	35	mg/kg	01.08.2021 01:34	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	94		93		70	-130	%	01.08.2021 01:34	

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

4-Bromofluorobenzene

 $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

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

86

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

.

01.08.2021 01:34

Page 10 of 12

91

70-130

%

Rec	erv	veð	- harder Wel	C Relinquished by: (Signature)		8: Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	24:1	M		sel		-2503 - 1503-C	Sample Identification	and a second sec	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Luis	P.O. Number: NR	Project Number:	Project Name:	Phone: 432.	City, State ZIP: Midl	Address: 3300	Company Name: WS	Project Manager: Jose				of	6
-			(nature)	nt and relinquishment o nly for the cost of samp i75.00 will be applied to	200.8 / 6020: d Metal(s) to be ar				All a		S 0500	tion Matrix	4	5	E)	Yes No	24/0.4	Temp Blank:	Luis Del Val	NRM2015454266	TEC12920085	PLU PC 17	432.236.3849	Midland, TX 79705	3300 North A Street	WSP USA Inc.	Joseph Hernandez		BORATORIES	50		
		_	We Chutt	Received by: (Signature)	f samples constitutes les and shall not assu each project and a c	8RCRA nalyzed TCLP						1/7/2021	Date Sampled	i viai o	Total	Correcti		Ц	C Yes No			vi	C 17						Hobbs, I				
			0	(Signature)	s a valid purchase ord ume any responsibilit harge of \$5 for each s	RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA						1030 4'	Time Depth Sampled		ontainere: 1	ž I			Wet Ice: Yes	Due Date:	Rush: 24	Routine	Turn Around	Email: luis.d	City, S	Address:	Comp	Bill to	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)	Houston, TX (28 Midland, TX (4)			
			1-7-2	Da	er from client comp / for any losses or e ample submitted to	Texas 11 AI Sb 110: 8RCRA Sb					-	-	Numbe				ain	ers	S		hr		und	elval@wsp.con	City, State ZIP: C		Company Name: X	Bill to: (if different) K	Phoenix, AZ (480-3	1) 240-4200 Dalla: 32-704-5440) EL F	S)	
			2491 12	Date/Time	any to Xenco, its aff expenses incurred b Xenco, but not anal	Sb As Ba Be B Sb As Ba Be Cc					>	×	TPH (EF BTEX (E Chlorid	EPA	A 0=	802	-	_						Email: uis.delval@wsp.com; joe.hernandez@wsp.com	Carlsbad, NM 88220	3104 E Green Street	XTO Energy	Kyle Littrell	355-0900) Atlanta,	s,TX (214) 902-03(³ aso.TX (915)585-	unain of Custody		
	Ø	4	2	Relinquished by: (Signature)	(ce: 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 avvice. 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 anco. 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.	B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U																	ANALYSIS REQUEST	ez@wsp.com	220	eet			,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)794-1796	ustody		
				Ire) Received by: (Signature)	standard terms and conditions ircumstances beyond the control less previously negotiated.																		EST	Deliverables: EDD	Reporting:Level IIevel II		Program: UST/PST PRP		-620-2000) <u>www.xenco.com</u>		Work O		
				Signature)		SiO2 Na Sr TI Si 1631 / 245.1							Sam	lab, if	TAT start								Wo	ADaPT	Jevel III PST/UST R		PRP Brownfields RC	Com	ico.com Page		Work Order No: Q 0 0	1	
Revised Date 051418 Rev. 2018.1				Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg			*				Sample Comments	lab, if received by 4:30pm	TAT starts the day receiied by the								Work Order Notes	Other:			C uperfund	0	1 of 1		0 00 75	いてついい	

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Acceptable Temperature F	Range: 0 - 6 degC
Air and Metal samples Acc	ceptable Range: Ambient
Temperature Measuring de	evice used: T_NM_007
pt Checklist	Comments
.4	
Yes	
No	
Yes	
Yes	
Yes	
Yes	Samples received in bulk containers.
Yes	
Yes	
Yes	
Yes	
No	
N/A	
	Air and Metal samples Acc Temperature Measuring d pt Checklist .4 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 01.07.2021

Checklist reviewed by: Jessica Kramer
Jessica Kramer

Date: 01.08.2021

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	17910
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are identified on the site map as "BH01", "BH02", and "BH03". The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	

CONDITIONS

Page 67 of 67

Action 17910