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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM2033631417
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID :	5380
Contact Name Kyle Littrell				Contact Te	elephone 432-221-7331
Contact email	Kyle_Lit	trell@xtoenergy.c	om	Incident #	(assigned by OCD)
Contact maili	ng address	522 W. Mermod,	, Carlsbad, NM 88	220	
				of Release So	ource
Latitude 32.13	2437			Longitude	-103.89633
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)
Site Name P	ierce Canyo	on 17		Site Type	Central Tank Battery
Date Release I				API# (if app	olicable)
Unit Letter	Section	Township	Range	Coun	nty
Р	17	25S	30E	Edd	у
Crude Oil	Materia	(s) Released (Select al	that apply and attach	Volume of I	justification for the volumes provided below)
	117 - 4		. , 0.10		· · · · · · · · · · · · · · · · · · ·
Produced	water	Volume Release	· , ,		Volume Recovered (bbls)
Is the concentration of total dissolved sol in the produced water >10,000 mg/l?			Yes No		
Condensate Volume Released (bbls)			Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)		
Cause of Rele	ease Fluid es A third	caped the flare sta party contractor h	ack and scorched the as been retained for	he pad around the por remediation acti	flare at the battery. The wells were immediately shut in. vities.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NRM2033631417
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Application ID	Ì

Was this a major release as defined by	If YES, for what reason(s) does the respo A release of fluids that is the result of a fin	nsible party consider this a major release?
19.15.29.7(A) NMAC?	A release of fluids that is the result of a fil	e or results in a fire.
¥ Yes □ No		
l ·	·	hom? When and by what means (phone, email, etc)?
		t, EMNRD; Bratcher, Mike, EMNRD; 'Griswold, November 13, 2020 at 3:55 p.m. via email.
July Brit 112 , or o_spin		10101000 13, 2020 01335 pmm via 0.mam
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
► The source of the rele	ease has been stopped.	
★ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence	remediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	ment. The acceptance of a C-141 report by the C	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
		eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Kyle Littr	ell	Title: SH&E Supervisor
Signature	Titul	Date:
email: Kyle Littrell@xto	penergy.com	Telephone: 432-221-7331
OCD Only		
OCD Only		
Received by: Ramo	ona Marcus	Date: 12/1/2020
I		

NRM2033631417

Location:	Pierce Canyon 17 TB		
Spill Date:	11/13/2020		
	Area 1		
Approximate A	ea =	574.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.13	inches
Average Porosi	y Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil	=	0.16	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.16 bbls	
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00 bbls	

	Page 4 of 1	U.
t ID	NRM2033631417	

Incident ID	NRM2033631417
District RP	
Facility ID	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>> 100</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?		
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.		
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well in Field data 	ls.	
Data table of soil contaminant concentration data		
 Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release 		
Boring or excavation logs		
Photographs including date and GIS information		
☐ Topographic/Aerial maps		
☐ Laboratory data including chain of custody		

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

Received by OCD: 2/10/2021 9:39:43 AM
Form C-141 State of New Mexico
Page 4 Oil Conservation Division

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Incident ID	NRM2033631417
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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Gardinant of the Caccordance with 19.15.29.13 NMAC including notification to the Caccordance with 19.15.29.13 NMAC including notification to the Caccordance with 19.15.29.13 NMAC including notification to the Caccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including no	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.	
Printed Name: Kyle Littrell Signature:		
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331	
OCD Only		
Received by:	Date:	
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

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Incident ID	NRM2033631417
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following is	tems must be inc	luded in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
□ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integ	rity if applicable (Note: appropriate OCD District office				
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office n	nust be notified 2 days prior to final sampling)				
Description of remediation activities						
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rereluman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the O	a C-141 report by mediate contamin a C-141 report do ations. The responditions that exis	y the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface water, sees not relieve the operator of responsibility for insible party acknowledges they must substantially ted prior to the release or their final land use in				
Printed Name: Kyle Littrell	Title:	SH&E Supervisor				
Signature:	Date:					
email:Kyle_Littrell@xtoenergy.com	Telephone:	432-221-7331				
OCD Only						
Received by: Robert Hamlet	Date:	6/17/2021				
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/o	water, human hea					
Closure Approved by: Robert Hamlet	Date:	6/17/2021				
Printed Name: Robert Hamlet	_ Title:	Environmental Specialist - Advanced				

wsp

WSP USA

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

February 3, 2021

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

RE: Closure Request
Pierce Canyon 17
Incident Number NRM2033631417
Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), is pleased to present the following Closure Request detailing site assessment and soil sampling activities at the Pierce Canyon 17 (Site) in Unit P, Section 17, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling was to assess for the presence or absence of impacts to soil following a release of crude oil and resulting fire at the Site. Based on field observations, field screening results, and laboratory analytical results following soil sampling events, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2033631417.

RELEASE BACKGROUND

On November 13, 2020, approximately 0.16 barrels (bbls) of crude oil released through the flare stack and resulted in a small fire that scorched the surface of the well pad around the flare. The wells on site were immediately shut in. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on November 19, 2020. The release was assigned Incident Number NRM2033631417.

SITE CHARACTERIZATION

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). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320628103533001, located approximately 1.15 miles south of the Site. The groundwater well was most recently measured in January 1998 has a reported depth to groundwater of 265 feet bgs and a total depth of 288 feet bgs. Ground surface elevation at the groundwater well location is 3,216 feet above mean sea level (amsl), which is approximately 28 feet lower in elevation than



District II Page 2

the Site. The next closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 03782, located approximately 2.06 miles south of the Site. The groundwater well has a reported depth to groundwater of 277 feet bgs and a total depth of 805 feet bgs. Ground surface elevation at the groundwater well location is 3,199 feet amsl, which is approximately 45 feet lower in elevation than the Site. NMOSE well C-03782 was drilled in January 2015. Within a 3.63-mile radius from the Site, there are nine additional water wells that indicate regional depth to groundwater is greater than 100 feet bgs at the Site. All water wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Attachment 1. USGS well 320850103533801 was referenced for depth to groundwater determination for a release at the nearby Poker Lake Unit Pierce Canyon 17 SWD #1 (Incident Number NAB1914836701) and was approximately 0.96 miles from the Site. Closure of Incident Number NAB1914836701 was approved by the NMOCD on July 29, 2019. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 3,300 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On December 1, 2020, WSP personnel inspected the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected five preliminary assessment soil samples (SS01 through SS05) within and around the release extent



District II Page 3

from a depth of approximately 0.5 feet bgs to assess for the presence or absence of soil impacts at the ground surface. On December 22, 2020, WSP personnel returned to the Site to complete additional soil assessment activities. Soil samples SS01A, SS03A, and SS04A were collected from a depth of 1 foot bgs at the SS01, SS03, and SS04 preliminary soil sample locations to further confirm the absence of impacted soil in the subsurface. The soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively.

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

The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Attachment 2.

Laboratory analytical results for preliminary soil samples SS01 through SS05, SS01A, SS03A, and SS04A indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and no excavation was required. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Site assessment and soil sampling activities were conducted at the Site to address the November 13, 2020 release of crude oil. Laboratory analytical results for soil samples SS01 through SS05, SS01A, SS03A, and SS04A collected within and around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria, no impacted soil was identified, and no soil excavation was required as a result of the crude oil fire. As such, XTO respectfully requests no further action for Incident Number NRM2033631417.



District II Page 4

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

Sincerely,

WSP USA Inc.

Spencer Lo

Staff Geologist

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Kyle Littrell, XTO

United States Bureau of Land Management - New Mexico

Attachments:

Figure 1 Site Location Map

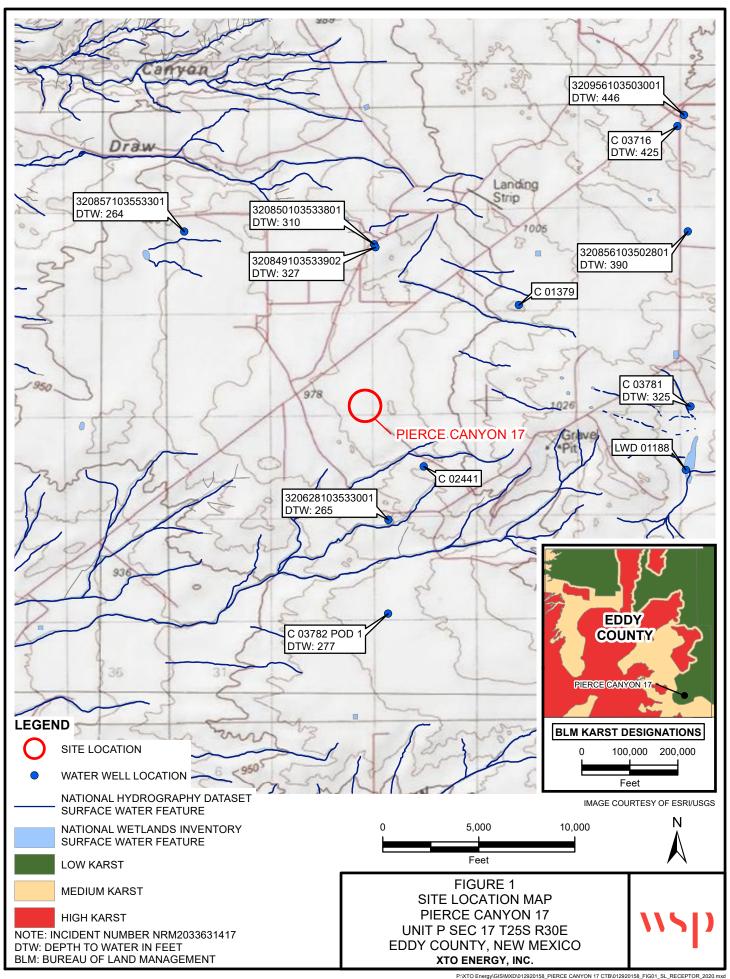
Figure 2 Soil Sample Locations

Table 1 Soil Analytical Results

Attachment 1 Referenced Well Records

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports



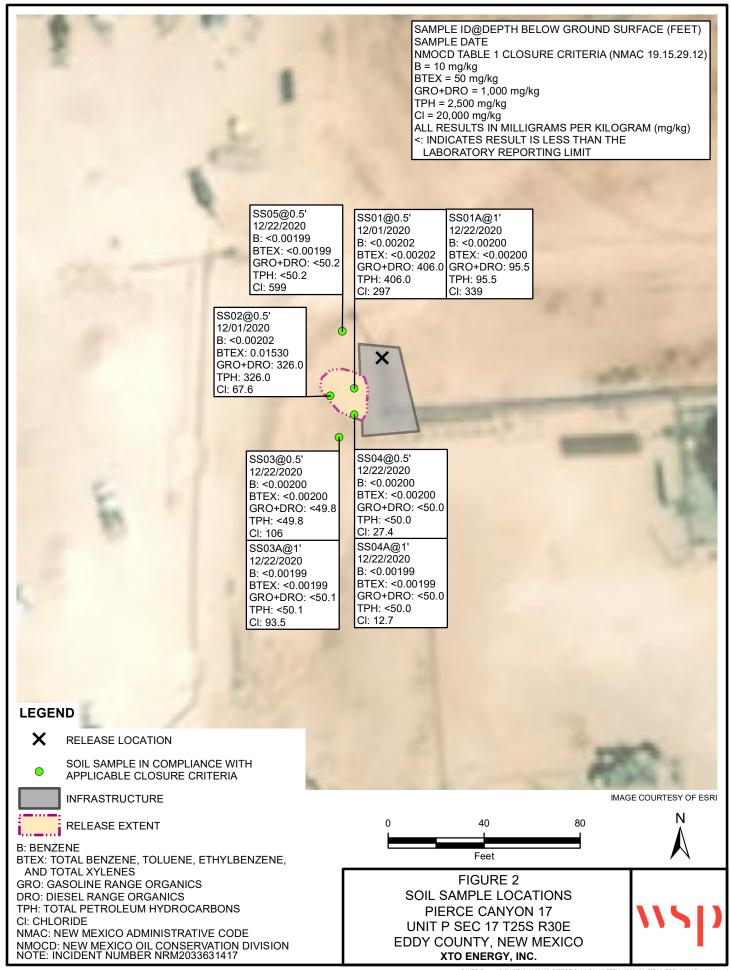


Table 1

Soil Analytical Results Pierce Canyon 17 Incident Number NRM2033631417 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	12/1/2020	0.5	< 0.00202	< 0.002020	<50.1	406	<50.1	406.0	406.0	297
SS01A	12/22/2020	1	< 0.00200	< 0.00200	<50.3	95.5	<50.3	95.5	95.5	339
SS02	12/1/2020	0.5	< 0.00202	0.01530	<50.0	326	<50.0	326.0	326.0	67.6
SS03	12/22/2020	0.5	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	106
SS03A	12/22/2020	1	< 0.00199	< 0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	93.5
SS04	12/22/2020	0.5	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	27.4
SS04A	12/22/2020	1	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	12.7
SS05	12/22/2020	0.5	< 0.00199	< 0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	599

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor 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

* - indicates sample was collected in area to be reclaimed after remediation is complete; closure criteria for chloride concentration in the top 4 feet of soil is 600 mg/kg

USGS 320628103533001 25S.30E.21.333424

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°06'28", Longitude 103°53'30" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 288 feet

Land surface altitude: 3,207 feet above NAVD88.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"

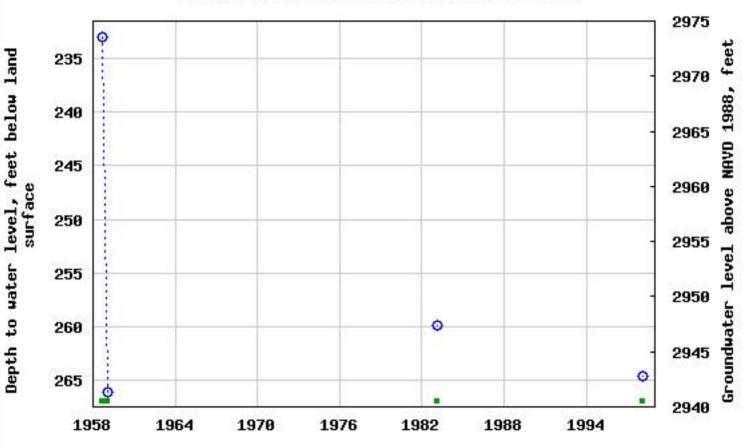
(110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08-21	1998-01-28	4
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

USGS 320628103533001 25S.30E.21.333424



USGS 320849103533902 25S.30E.08.242221A

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°08'49", Longitude 103°53'39" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 500 feet

Land surface altitude: 3,230 feet above NAVD88.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"

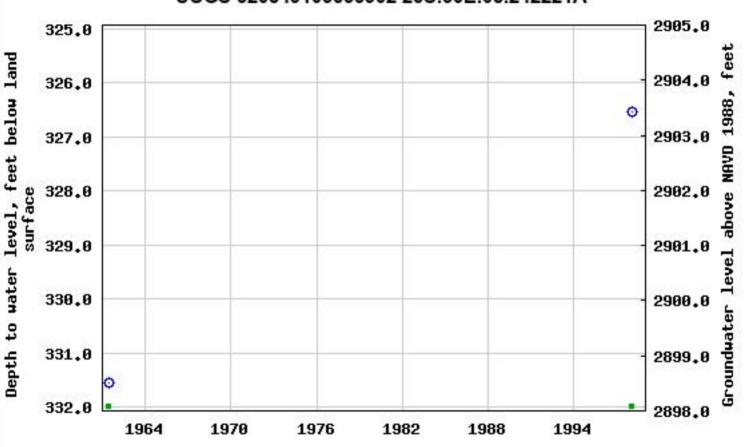
(110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-06-14	1998-01-28	2
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

USGS 320849103533902 25S.30E.08.242221A



USGS 320850103533801 25S.30E.08.224444

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°08'50", Longitude 103°53'38" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 3,232 feet above NAVD88.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"

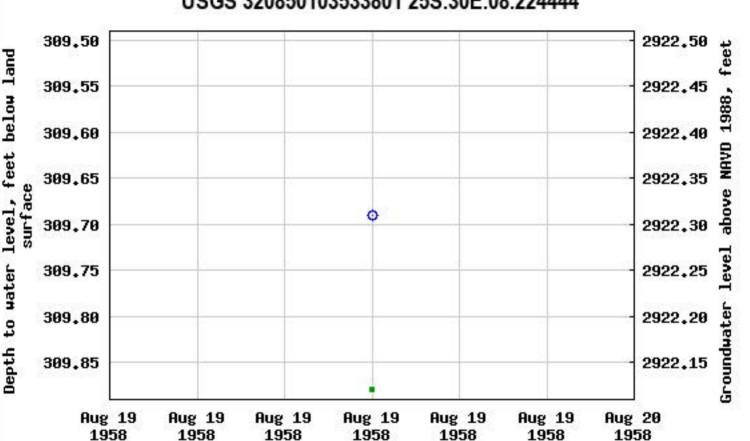
(110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08-19	1958-08-19	1
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

USGS 320850103533801 25S.30E.08.224444



USGS 320856103502801 25S.30E.12.113211

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°08'56", Longitude 103°50'28" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 482 feet

Land surface altitude: 3,371 feet above NAVD88.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"

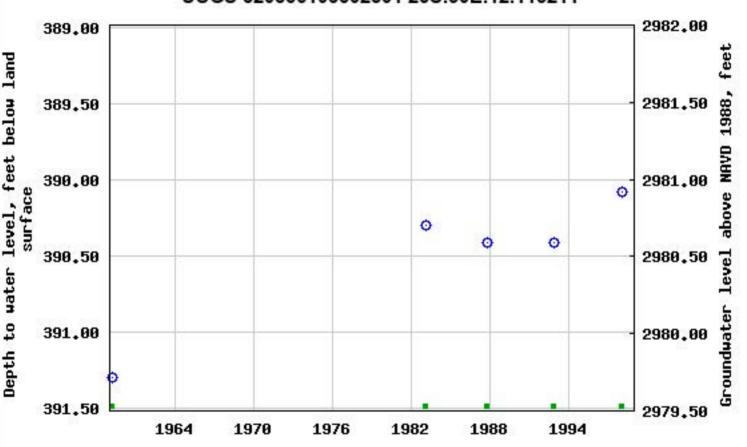
(110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-03-25	1998-01-28	5
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

USGS 320856103502801 25S.30E.12.113211



USGS 320857103553301 25S.30E.07.112331

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°08'57", Longitude 103°55'33" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 385 feet

Land surface altitude: 3,169 feet above NAVD88.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"

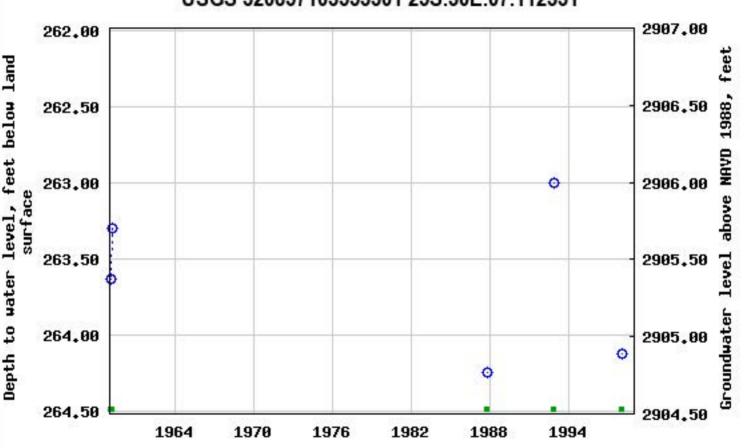
(110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-05	1998-01-28	5
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

USGS 320857103553301 25S.30E.07.112331



USGS 320956103503001 24S.30E.36.33333

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°09'56", Longitude 103°50'30" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 480 feet

Land surface altitude: 3,408 feet above NAVD88.

Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

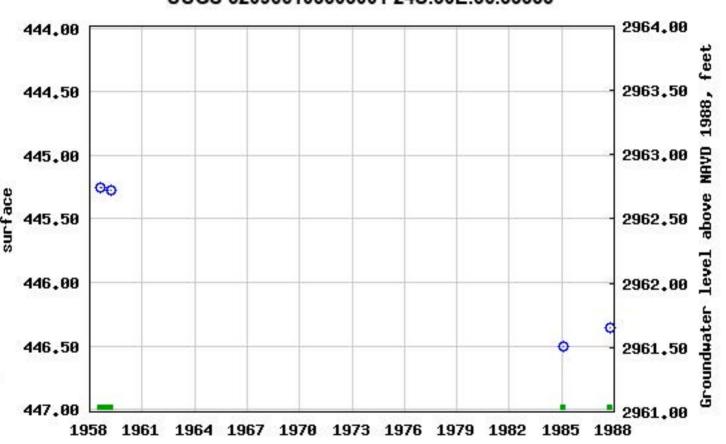
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08-19	1987-10-15	4
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

level, feet below land

Depth to water

USGS 320956103503001 24S.30E.36.33333





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

 \mathbf{X}

C 03716 POD1

2 25S 30E 02

609069

3559211

Driller License: 1229 **Driller Company:**

CARTER'S WELL DRILLING

Driller Name: RICHARD CARTER

02/05/2014

Drill Finish Date:

03/03/2014

Plug Date:

Shallow

Drill Start Date: Log File Date:

03/12/2014

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

50 GPM

Casing Size:

Depth Well:

600 feet

Depth Water:

425 feet

Water Bearing Stratifications:

Bottom Description Top

442

600 Sandstone/Gravel/Conglomerate

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

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng

 C 03781 POD1
 3 3 3 13 25S 30E

X Y

01/08/2015

609306 3554761

Driller License: 331 Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING

Driller Name:
Drill Start Date:

Drill Finish Date: 01/10/2015 Plug Date:

Log File Date: 02/19/2015 PCW Rcv Date: Source: Artesian

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 8.63 Depth Well: 720 feet Depth Water: 325 feet

er Bearing Stratifications:	Top	Bottom	Description
	200	370	Sandstone/Gravel/Conglomerate
	370	390	Sandstone/Gravel/Conglomerate
	390	410	Sandstone/Gravel/Conglomerate
	410	440	Sandstone/Gravel/Conglomerate
	440	460	Shale/Mudstone/Siltstone
	460	470	Shale/Mudstone/Siltstone
	470	490	Shale/Mudstone/Siltstone
	490	500	Shale/Mudstone/Siltstone
	500	510	Sandstone/Gravel/Conglomerate
	510	530	Shale/Mudstone/Siltstone
	530	660	Shale/Mudstone/Siltstone
	660	690	Shale/Mudstone/Siltstone
	690	700	Shale/Mudstone/Siltstone
	700	720	Shale/Mudstone/Siltstone
Casing Perforations:	Тор	Bottom	
	340	720	
		200 370 390 410 440 460 470 490 500 510 530 660 690 700 Casing Perforations: Top	200 370 370 390 390 410 410 440 440 460 460 470 470 490 490 500 500 510 510 530 530 660 660 690 690 700 700 720 Casing Perforations: Top Bottom

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng

 C 03782 POD1
 4 3 3 28 25S 30E

X Y 604526 3551444

Driller License: 331 Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING

Driller Name:

Drill Start Date: 01/16/2015 Drill Finish Date: 01/17/2015 Plug Date:

Log File Date: 02/19/2015 PCW Rev Date: Source: Artesian

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 8.63 Depth Well: 805 feet Depth Water: 277 feet

Water Bearing Stratifications:	Top	Bottom	Description
	260	320	Sandstone/Gravel/Conglomerate
	320	380	Sandstone/Gravel/Conglomerate
	380	410	Sandstone/Gravel/Conglomerate
	410	530	Shale/Mudstone/Siltstone
	530	590	Shale/Mudstone/Siltstone
	590	600	Shale/Mudstone/Siltstone
	600	630	Shale/Mudstone/Siltstone
	630	650	Shale/Mudstone/Siltstone
	650	700	Shale/Mudstone/Siltstone
	700	710	Shale/Mudstone/Siltstone
	710	760	Shale/Mudstone/Siltstone
	760	770	Shale/Mudstone/Siltstone
	770	780	Shale/Mudstone/Siltstone
	780	790	Shale/Mudstone/Siltstone
	790	805	Shale/Mudstone/Siltstone
x Casing Perforations:	Тор	Bottom	
	270	805	
x			

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

POINT OF DIVERSION SUMMARY



PHOTOGRAPHIC LOG						
XTO Energy, Inc	Pierce Canyon 17	TE012920158				
Eddy County, NM						

Photo No. Date

1 December 1, 2020

Northern view of release area.



Photo No. Date
2 December 1, 2020

North eastern view of release area near flare.





PHOTOGRAPHIC LOG		
XTO Energy, Inc	Pierce Canyon 17	TE012920158
	Eddy County, NM	

Photo No.	Date	
3	December 1, 2020	
North eastern view of release area.		



Photo No.	Date	
4	December 1, 2020	
	0 1	

Southern view of release area.



Certificate of Analysis Summary 679467 WSP USA, Dallas, TX

eurofins Environment Testing

Project Name: Pierce Canyon 17 CTB

Project Id: Contact:

TE012920158

Dan Moir

Date Received in Lab: Wed 12.02.2020 08:50

Project Manager: Jessica Kramer

Report Date: 12.04.2020 14:07

Project Location:

	Lab Id:	679467-0	001	679467-0	002		
Analysis Requested	Field Id:	SS01		SS02			
Analysis Requested	Depth:	0.5- ft		0.5- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	12.01.2020	12:39	12.01.2020	12:48		
BTEX by EPA 8021B	Extracted:	12.02.2020	13:15	12.02.2020	13:15		
	Analyzed:	12.03.2020	01:40	12.03.2020	02:03		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene			0.00202	< 0.00202	0.00202		
Toluene		< 0.00202	0.00202	< 0.00202	0.00202		
Ethylbenzene		< 0.00202	0.00202	< 0.00202	0.00202		
m,p-Xylenes		< 0.00403	0.00403	0.0153	0.00403		
o-Xylene		< 0.00202	0.00202	< 0.00202	0.00202		
Total Xylenes		< 0.002020	0.002020	0.01530	0.002020		
Total BTEX		< 0.002020	0.002020	0.01530	0.002020		
Chloride by EPA 300	Extracted:	12.02.2020	18:09	12.02.2020	18:09		
	Analyzed:	12.03.2020	19:44	12.03.2020	19:50		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		297	10.0	67.6	9.96		
TPH by SW8015 Mod	Extracted:	12.02.2020	16:00	12.02.2020	16:00		
	Analyzed:	12.03.2020	02:00	12.03.2020	02:20		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.1	50.1	< 50.0	50.0		
Diesel Range Organics (DRO)		406	50.1	326	50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.0	50.0		
Total GRO-DRO		406.0	50.10	326.0	50.00		
Total TPH		406.0	50.10	326.0	50.00		

BRL - Below Reporting Limit

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

Jessica Weamer



Analytical Report 679467

for

WSP USA

Project Manager: Dan Moir

Pierce Canyon 17 CTB TE012920158 12.04.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (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 (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



12.04.2020

Project Manager: Dan Moir

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 679467

Pierce Canyon 17 CTB

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 679467. 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. 679467 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 679467

WSP USA, Dallas, TX

Pierce Canyon 17 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	12.01.2020 12:39	0.5 ft	679467-001
SS02	S	12.01.2020 12:48	0.5 ft	679467-002

Xenco

Environment Testing

CASE NARRATIVE

Client Name: WSP USA

Project Name: Pierce Canyon 17 CTB

Project ID: Report Date: 12.04.2020 TE012920158 Work Order Number(s): 679467 Date Received: 12.02.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



WSP USA, Dallas, TX

Pierce Canyon 17 CTB

Sample Id: **SS01** Lab Sample Id: 679467-001 Matrix: Soil Date Received:12.02.2020 08:50

Date Collected: 12.01.2020 12:39

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Date Prep:

% Moisture: 12.02.2020 18:09

Basis: Wet Weight

MAB Analyst: Seq Number: 3143893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	297	10.0	mg/kg	12.03.2020 19:44		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Seq Number: 3143799

Analyst:

CAC

Date Prep: 12.02.2020 16:00 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	12.03.2020 02:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	406	50.1		mg/kg	12.03.2020 02:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.03.2020 02:00	U	1
Total GRO-DRO	PHC628	406.0	50.10		mg/kg	12.03.2020 02:00		1
Total TPH	PHC635	406.0	50.10		mg/kg	12.03.2020 02:00		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	107	%	70-135	12.03.2020 02:00
o-Terphenyl	84-15-1	97	%	70-135	12.03.2020 02:00

WSP USA, Dallas, TX

Pierce Canyon 17 CTB

Sample Id: **SS01** Matrix: Soil Date Received:12.02.2020 08:50

Lab Sample Id: 679467-001 Date Collected: 12.01.2020 12:39 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

MAB Analyst: Date Prep: 12.02.2020 13:15

Seq Number: 3143773

% Moisture:	
-------------	--

Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.03.2020 01:40	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.03.2020 01:40	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.03.2020 01:40	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.03.2020 01:40	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.03.2020 01:40	U	1
Total Xylenes	1330-20-7	< 0.002020	0.002020		mg/kg	12.03.2020 01:40	U	1
Total BTEX		< 0.002020	0.002020		mg/kg	12.03.2020 01:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	70-130	12.03.2020 01:40		
1,4-Difluorobenzene		540-36-3	98	%	70-130	12.03.2020 01:40		

WSP USA, Dallas, TX

Pierce Canyon 17 CTB

Sample Id: **SS02** Matrix: Soil Date Received:12.02.2020 08:50

Lab Sample Id: 679467-002

Date Collected: 12.01.2020 12:48

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

MAB Analyst: Seq Number: 3143893 Date Prep: 12.02.2020 18:09 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	67.6	9.96	mg/kg	12.03.2020 19:50		1

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

CACAnalyst: Seq Number: 3143799

Date Prep:

12.02.2020 16:00

% Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.03.2020 02:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	326	50.0		mg/kg	12.03.2020 02:20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.03.2020 02:20	U	1
Total GRO-DRO	PHC628	326.0	50.00		mg/kg	12.03.2020 02:20		1
Total TPH	PHC635	326.0	50.00		mg/kg	12.03.2020 02:20		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	114	%	70-135	12.03.2020 02:20
o-Terphenyl	84-15-1	106	%	70-135	12.03.2020 02:20

WSP USA, Dallas, TX

Pierce Canyon 17 CTB

Sample Id: SS02 Matrix: Soil Date Received:12.02.2020 08:50

Lab Sample Id: 679467-002 Date Collected: 12.01.2020 12:48 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 12.02.2020 13:15 % Moisture:

Seq Number: 3143773

	12.02.2020 13:15	/0 1V1015tu1C	J.
).	12.02.2020 13.13	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.03.2020 02:03	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.03.2020 02:03	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.03.2020 02:03	U	1
m,p-Xylenes	179601-23-1	0.0153	0.00403		mg/kg	12.03.2020 02:03		1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.03.2020 02:03	U	1
Total Xylenes	1330-20-7	0.01530	0.002020		mg/kg	12.03.2020 02:03		1
Total BTEX		0.01530	0.002020		mg/kg	12.03.2020 02:03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	12.03.2020 02:03		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.03.2020 02:03		



Flagging Criteria

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

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

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

Flag

679467 **QC Summary**

🍪 eurofins **Environment Testing** Xenco

WSP USA

Pierce Canyon 17 CTB

E300P Analytical Method: Chloride by EPA 300 Prep Method: Seq Number: 3143893 Matrix: Solid Date Prep: 12.02.2020

LCS Sample Id: 7716287-1-BKS LCSD Sample Id: 7716287-1-BSD MB Sample Id: 7716287-1-BLK

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 257 103 257 90-110 20 12.03.2020 16:57 103 0 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number: 3143893 Matrix: Soil Date Prep: 12.02.2020 MS Sample Id: 679462-021 S MSD Sample Id: 679462-021 SD Parent Sample Id: 679462-021

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date 12.03.2020 17:16 Chloride 13.8 201 211 98 212 99 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

3143893 Seq Number: Matrix: Soil Date Prep: 12.02.2020 MS Sample Id: 679462-031 S MSD Sample Id: 679462-031 SD Parent Sample Id: 679462-031

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 3 20 12.03.2020 18:42 113 200 314 101 324 105 90-110 mg/kg

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

3143799 Matrix: Solid Seq Number: Date Prep: 12.02.2020 7716294-1-BLK LCS Sample Id: 7716294-1-BKS LCSD Sample Id: 7716294-1-BSD MB Sample Id:

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Result Amount %Rec %Rec Date Result Gasoline Range Hydrocarbons (GRO) 12.02.2020 18:43 35 < 50.0 1000 1130 113 1010 101 70-135 11 mg/kg 12.02.2020 18:43 Diesel Range Organics (DRO) 70-135 35 < 50.0 1000 1060 106 1160 116 9 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 12.02.2020 18:43 1-Chlorooctane 118 100 108 70-135 % 12.02.2020 18:43 o-Terphenyl 114 95 112 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3143799 Matrix: Solid Date Prep: 12.02.2020

MB Sample Id: 7716294-1-BLK

MBUnits Analysis Flag **Parameter** Result Date 12.02.2020 18:23 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

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

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

Flag

Flag

QC Summary 679467

WSP USA

Pierce Canyon 17 CTB

 Analytical Method:
 TPH by SW8015 Mod
 Prep Method:
 SW8015P

 Seq Number:
 3143799
 Matrix:
 Soil
 Date Prep:
 12.02.2020

 Parent Sample Id:
 679462-021
 MS Sample Id:
 679462-021 SD
 MSD Sample Id:
 679462-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD	MSD	Limits	%RPD	RPD Limit	Units	Analysis Date
	Result	Amount	Result	70 Kec	Result	%Rec			Limit		Date
Gasoline Range Hydrocarbons (GRO)	< 50.3	1010	1210	120	1070	107	70-135	12	35	mg/kg	12.02.2020 19:42
Diesel Range Organics (DRO)	< 50.3	1010	1060	105	1120	112	70-135	6	35	mg/kg	12.02.2020 19:42

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		114		70-135	%	12.02.2020 19:42
o-Terphenyl	103		109		70-135	%	12.02.2020 19:42

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3143773Matrix:SolidDate Prep:12.02.2020MB Sample Id:7716291-1-BLKLCS Sample Id:7716291-1-BKSLCSD Sample Id:7716291-1-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	0.101	101	0.103	103	70-130	2	35	mg/kg	12.02.2020 16:22
Toluene	< 0.00200	0.100	0.0962	96	0.0989	99	70-130	3	35	mg/kg	12.02.2020 16:22
Ethylbenzene	< 0.00200	0.100	0.0891	89	0.0924	92	71-129	4	35	mg/kg	12.02.2020 16:22
m,p-Xylenes	< 0.00400	0.200	0.182	91	0.189	95	70-135	4	35	mg/kg	12.02.2020 16:22
o-Xylene	< 0.00200	0.100	0.0901	90	0.0929	93	71-133	3	35	mg/kg	12.02.2020 16:22

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene 4-Bromofluorobenzene	101 90		99 87		99 88		70-130 70-130	% %	12.02.2020 16:22 12.02.2020 16:22

 Analytical Method:
 BTEX by EPA 8021B
 Prep Method:
 SW 5035A

 Seq Number:
 3143773
 Matrix:
 Soil
 Date Prep:
 12.02.2020

 Parent Sample Id:
 679462-021
 MS Sample Id:
 679462-021 SD
 MSD Sample Id:
 679462-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.106	106	0.114	114	70-130	7	35	mg/kg	12.02.2020 17:06	
Toluene	< 0.00200	0.100	0.103	103	0.110	110	70-130	7	35	mg/kg	12.02.2020 17:06	
Ethylbenzene	< 0.00200	0.100	0.0954	95	0.104	104	71-129	9	35	mg/kg	12.02.2020 17:06	
m,p-Xylenes	< 0.00401	0.200	0.195	98	0.212	106	70-135	8	35	mg/kg	12.02.2020 17:06	
o-Xylene	< 0.00200	0.100	0.0960	96	0.104	104	71-133	8	35	mg/kg	12.02.2020 17:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		70-130	%	12.02.2020 17:06
4-Bromofluorobenzene	90		86		70-130	%	12.02.2020 17:06

City, State ZIP:

Address:

Company Name: Project Manager:

> > Chain of Custody

Work Order No: 679467

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

Work Order Notes		ANALYSIS REQUEST	Turn Around	Diorgo Canyon 17 CTB
Otner:	Deliverables: EDD	Email: uis.delval@wsp.com; korey.kennedy@wsp.com	Email: luis.delval@w	432.236.3849
RRP Level IV	vel III ∐*ST/UST	Carlsbad, NM 88220	City, State ZIP:	Midland, TX 79705
:	State of Project:	3104 E Green Street	Address:	3300 North A Street
RC _uperfund _	Program: UST/PST ☐PRP ☐Brownfields ☐RC ☐uperfund ☐	Company Name: XTO Energy	Company Nam	WSP Inc.,
 nts	Work Order Comments	Bill to: (if different) Kyle Littrell	Bill to: (if different	Dan Moir
age	www.xenco.com	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	575-392-7550) Phoenix, A	Hobbs,NM (

	432.236.3849 Pierce Canvon 17 CTB	on 17 CTB	Turn Around AN	round					ANA	LYSIS	LYSIS REQUEST	UEST			
Project Number:	TE012920158	220158	Routine	À									-	_	\dashv
P.O. Number:			Rush:								-				
me:	Luis Del Val		Due Date												
CE	Temp Blank:	nk: Yes No	Wet Ice: Yes	N _O											
Temperature (°C):	2.0		Thermometer ID		ners)								
Received Intact:		1/2	FOO-M		ntai	(21)	00.0								
Cooler Custody Seals:	#		Factor:	0.2			'A 3								
Sample Custody Seals:	€		Total Containers:	2			e (EF								
Sample Identification	cation Matrix	Date Sampled	Time [Depth	Number TPH (EF	BTEX (E	Chlorid								
SS01	S	12/1/2020	1239	0.5'	1 ×	×	×					-	-		
SS02	S	12/1/2020	1248	0.5'	1	×	×					-		-	
													+	+	+
														+	
					+	+	+		1	+			+	+	+
											H	H	H	H	
							-								
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020: and Metal(s) to be		8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA	Texas 11 010: 8RCF		As	Ba Be (B Cd Cr	Ca Cr Co Cu	РВ	Co Cu Fe Pb Mg Mn Mo Ni K Pb Mn Mo Ni Se Ag Ti U	Ni S	g Mn e Ag	T U	Ni K Se Ag
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 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ument and relinquishme le only for the cost of sa of \$75.00 will be applie	nt of samples consti imples and shall not d to each project and	tutes a valid purcha assume any respon d a charge of \$5 for d	se order from one sibility for any each sample so	client con losses o	npany to a r expense to Xenco,	Xenco, its as incurre but not a	affiliates d by the c inalyzed.	and subo lient if su These ter	ontracto ich losse ns will b	rs. It as s are du e enforc	signs street to circu	andard umstand	terms a es bey usly ne	nd con ond the gotiate
Relinquished by: (Signature)	Signature)	Received I	Received by: (Signature)		Da	Date/Time	Ф	Re	Relinquished by: (Signature)	hed by	: (Sigr	ature)	5-19/25	_	Received by: (Signature)
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G.		-						-							

eurofins Environment Testing

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Certificate of Analysis Summary 682306

WSP USA, Dallas, TX

Project Name: PC 17 CTB

Project Id: Contact:

TE012920158

Dan Moir

Date Received in Lab: Tue 12.22.2020 16:00

Report Date: 12.29.2020 11:45

Project Location:

Project Manager: Jessica Kramer

	Lab Id:	682306-0	001	682306-0	002		
A sa salassis D a sea and a d	Field Id:	SS04		SS04 A	4		
Analysis Requested	Depth:	0.5- ft		1- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	12.22.2020	11:19	12.22.2020	11:26		
BTEX by EPA 8021B	Extracted:	12.22.2020	17:30	12.22.2020	17:30		
	Analyzed:	12.22.2020	19:43	12.22.2020	20:06		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00199	0.00199		
Toluene		< 0.00200	0.00200	< 0.00199	0.00199		
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199		
m,p-Xylenes		< 0.00399	0.00399	< 0.00398	0.00398		
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199		
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199		
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199		
Chloride by EPA 300	Extracted:	12.28.2020	11:46	12.28.2020	11:46		
	Analyzed:	12.28.2020	13:18	12.28.2020	13:36		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		27.4	9.98	12.7	9.92		
TPH by SW8015 Mod	Extracted:	12.28.2020	12:00	12.28.2020	12:00		
	Analyzed:	12.28.2020	17:16	12.28.2020	17:36		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	< 50.0	50.0		
Diesel Range Organics (DRO)		< 50.0	50.0	< 50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	< 50.0	50.0		
Total GRO-DRO		< 50.0	50.0	< 50.0	50.0		
Total TPH		< 50.0	50.0	< 50.0	50.0		

BRL - Below Reporting Limit

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

Jessica Vramer



Analytical Report 682306

for

WSP USA

Project Manager: Dan Moir

PC 17 CTB
TE012920158
12.29.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (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 (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



12.29.2020

Project Manager: Dan Moir

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 682306

PC 17 CTBProject Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 682306. 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. 682306 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 682306

WSP USA, Dallas, TX

PC 17 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS04	S	12.22.2020 11:19	0.5 ft	682306-001
SS04 A	S	12.22.2020 11:26	1 ft	682306-002

Xenco

Environment Testing

CASE NARRATIVE

Client Name: WSP USA Project Name: PC 17 CTB

Project ID: Report Date: 12.29.2020 TE012920158 Work Order Number(s): 682306 Date Received: 12.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



WSP USA, Dallas, TX

PC 17 CTB

Sample Id: **SS04** Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682306-001

Date Collected: 12.22.2020 11:19

Sample Depth: 0.5 ft

Prep Method: E300P

Prep Method: SW8015P

12.28.2020 17:16

Analytical Method: Chloride by EPA 300

MAB

MAB

Date Prep: 12.28.2020 11:46 % Moisture:

Basis:

Wet Weight

Seq Number: 3146198

Tech:

Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 27.4 12.28.2020 13:18 9.98 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech: CAC

Total TPH

Analyst:

Seq Number: 3146194

CAC

Date Prep:

PHC635

% Moisture: 12.28.2020 12:00

mg/kg

Basis:

Wet Weight

U

1

Cas Number Result RL**Parameter** Units **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 < 50.0 50.0 12.28.2020 17:16 U mg/kg 1 Diesel Range Organics (DRO) C10C28DRO 50.0 12.28.2020 17:16 U < 50.0 mg/kg 1 Motor Oil Range Hydrocarbons (MRO) 12.28.2020 17:16 PHCG2835 < 50.0 50.0 mg/kg U 1 Total GRO-DRO PHC628 < 50.0 50.0 mg/kg 12.28.2020 17:16 U

50.0

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	12.28.2020 17:16	
o-Terphenyl	84-15-1	101	%	70-135	12.28.2020 17:16	

< 50.0

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: SS04 Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682306-001 Date Collected: 12.22.2020 11:19 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 12.22.2020 17:30 % Moisture:

Seq Number: 3146051

12.22.2020 17.30	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.22.2020 19:43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.22.2020 19:43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.22.2020 19:43	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.22.2020 19:43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.22.2020 19:43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.22.2020 19:43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.22.2020 19:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	119	%	70-130	12.22.2020 19:43		
1,4-Difluorobenzene	5	540-36-3	105	%	70-130	12.22.2020 19:43		

Dil

Certificate of Analytical Results 682306

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: **SS04 A** Matrix:

Soil

Date Received:12.22.2020 16:00

Lab Sample Id: 682306-002

Date Collected: 12.22.2020 11:26

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep:

12.28.2020 11:46

% Moisture:

Basis:

Wet Weight

Parameter

Seq Number: 3146198

Chloride 16887-00-6 Result RL 12.7 9.92

Cas Number

Units 12.28.2020 13:36 mg/kg

Analysis Date Flag

Prep Method: SW8015P

Analytical Method: TPH by SW8015 Mod

Tech:

CAC

CAC Analyst: Seq Number: 3146194 Date Prep:

12.28.2020 12:00

% Moisture:

Basis:

Wet Weight

Flag

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	mg/kg	12.28.2020 17:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	mg/kg	12.28.2020 17:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	mg/kg	12.28.2020 17:36	U	1
Total GRO-DRO	PHC628	< 50.0	50.0	mg/kg	12.28.2020 17:36	U	1
Total TPH	PHC635	< 50.0	50.0	mg/kg	12.28.2020 17:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	111	%	70-135	12.28.2020 17:36
o-Terphenyl	84-15-1	98	%	70-135	12.28.2020 17:36

Wet Weight

Certificate of Analytical Results 682306

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: SS04 A Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682306-002 Date Collected: 12.22.2020 11:26 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3146051

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	12.22.2020 20:06	U	1
Toluene	108-88-3	< 0.00199	0.00199	mg/kg	12.22.2020 20:06	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	mg/kg	12.22.2020 20:06	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	mg/kg	12.22.2020 20:06	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	mg/kg	12.22.2020 20:06	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199	mg/kg	12.22.2020 20:06	U	1
Total BTEX		< 0.00199	0.00199	mg/kg	12.22.2020 20:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	12.22.2020 20:06	
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.22.2020 20:06	



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 Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

Analysis

Analysis

Flag

Flag

Flag



WSP USA PC 17 CTB

LCSD

LCSD

Analytical Method: Chloride by EPA 300

Seq Number: 3146198

Matrix: Solid

Spike

E300P Prep Method:

RPD

%RPD

Limits

Date Prep: 12.28.2020

7717954-1-BLK LCS Sample Id: 7717954-1-BKS LCSD Sample Id: MB Sample Id:

LCS

7717954-1-BSD Units

Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 260 104 90-110 0 20 12.28.2020 12:30 260 104 mg/kg

LCS

Analytical Method: Chloride by EPA 300

Seq Number: 3146198

Matrix: Soil

Prep Method: E300P

Date Prep: 12.28.2020 MSD Sample Id: 682305-001 SD

682305-001 S 682305-001 MS Sample Id: Parent Sample Id: Parent Spike MS MS MSD MSD Limits %RPD RPD Units **Parameter**

Result Amount Result %Rec Result %Rec Limit Date 12.28.2020 12:48 Chloride <9.98 200 206 103 206 104 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

3146198 Seq Number:

MB

E300P Prep Method:

Matrix: Soil Date Prep: 12.28.2020 682314-001 S

MS Sample Id: MSD Sample Id: 682314-001 SD 682314-001 Parent Sample Id:

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 393 20 12.28.2020 14:12 200 611 109 613 110 90-110 0 mg/kg

Analytical Method: TPH by SW8015 Mod

3146194 Seq Number:

SW8015P Prep Method:

Date Prep: 12.28.2020

Matrix: Solid 7717990-1-BLK LCS Sample Id: 7717990-1-BKS LCSD Sample Id: 7717990-1-BSD MB Sample Id:

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Result Amount %Rec %Rec Date Result Gasoline Range Hydrocarbons (GRO) 12.28.2020 13:52 998 35 < 50.0 1000 100 1080 108 70-135 8 mg/kg 12.28.2020 13:52 Diesel Range Organics (DRO) 937 70-135 35 < 50.0 1000 94 1060 106 12 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Flag Date Flag %Rec 12.28.2020 13:52 1-Chlorooctane 102 103 101 70-135 % 12.28.2020 13:52 o-Terphenyl 107 102 99 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3146194 Matrix: Solid

SW8015P Prep Method:

Units

Date Prep:

MB Sample Id: 7717990-1-BLK

MB**Parameter** Result

Date

12.28.2020

Analysis

12.28.2020 13:32 < 50.0 mg/kg

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

Motor Oil Range Hydrocarbons (MRO)

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample = Parent Result

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

Page 61 of 102

Flag

Flag

WSP USA PC 17 CTB

Analytical Method: TPH by SW8015 Mod
Seq Number: 3146194 Matrix: Soil

Parent Sample Id: 682305-001 MS Sample Id: 682305-001 S

Date Prep: 12.28.2020 MSD Sample Id: 682305-001 SD

Prep Method:

SW8015P

RPD **Parent** Spike MS MS MSD Limits %RPD Units Analysis MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.9 998 1120 112 980 13 35 12.28.2020 14:55 98 70-135 mg/kg 12.28.2020 14:55 100 mg/kg Diesel Range Organics (DRO) <49.9 998 1000 1130 70-135 12 35 113

MSD Limits Units MS MS MSD Analysis **Surrogate** %Rec Flag Flag Date %Rec 12.28.2020 14:55 1-Chlorooctane 111 102 70-135 % 12.28.2020 14:55 o-Terphenyl 106 116 70-135 %

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3146051Matrix:SolidDate Prep:12.22.2020

 Seq Number:
 3146051
 Matrix:
 Solid
 Date Prep:
 12.22.2020

 MB Sample Id:
 7717927-1-BLK
 LCS Sample Id:
 7717927-1-BSD

LCSD Sample Id:

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	0.0990	99	0.104	104	70-130	5	35	mg/kg	12.22.2020 15:42
Toluene	< 0.00200	0.100	0.0946	95	0.0977	98	70-130	3	35	mg/kg	12.22.2020 15:42
Ethylbenzene	< 0.00200	0.100	0.0997	100	0.104	104	71-129	4	35	mg/kg	12.22.2020 15:42
m,p-Xylenes	< 0.00400	0.200	0.204	102	0.212	106	70-135	4	35	mg/kg	12.22.2020 15:42
o-Xylene	< 0.00200	0.100	0.102	102	0.103	103	71-133	1	35	mg/kg	12.22.2020 15:42

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		99		103		70-130	%	12.22.2020 15:42
4-Bromofluorobenzene	118		105		112		70-130	%	12.22.2020 15:42

 Analytical Method:
 BTEX by EPA 8021B
 Prep Method:
 SW5035A

 Seq Number:
 3146051
 Matrix:
 Soil
 Date Prep:
 12.22.2020

 Parent Sample Id:
 682137-006
 MS Sample Id:
 682137-006 S
 MSD Sample Id:
 682137-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.115	115	0.116	116	70-130	1	35	mg/kg	12.22.2020 16:26	
Toluene	< 0.00201	0.100	0.109	109	0.109	109	70-130	0	35	mg/kg	12.22.2020 16:26	
Ethylbenzene	< 0.00201	0.100	0.113	113	0.114	114	71-129	1	35	mg/kg	12.22.2020 16:26	
m,p-Xylenes	< 0.00402	0.201	0.231	115	0.232	116	70-135	0	35	mg/kg	12.22.2020 16:26	
o-Xylene	< 0.00201	0.100	0.113	113	0.113	113	71-133	0	35	mg/kg	12.22.2020 16:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	12.22.2020 16:26
4-Bromofluorobenzene	110		112		70-130	%	12.22.2020 16:26

E = MSD/LCSD Result

Page 62 of 102 Project Manager: Company Name: Korey Kennedy WSP USA Inc.

City, State ZIP:

Midland, TX 79705 3300 North A Street

Chain of Custody

Work Order No: 68 2306

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

550) Phoenix,AZ (48	7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)		WWW.XCIICO.COIII	190	- 280	
Bill to: (if different) Kyle Littrell	Kyle Littrell		Work Order Comments	ents		
	VTO Excess	Program: IIST/PST PRP Brownfields RC uperfund	PRP Brownfields	रि	uperfund	
Company Name: XTO Energy	XTO Energy	Program: USI/PSI	Prowillelus	5	uper iniu	
Address:	3104 E Green Street	State of Project:]
ity. State ZIP:	City. State ZIP: Carlsbad, NM 88220	Reporting:Level II	vel III □ST/UST	RRP	evel IV	
uis.delval@wsp.c	luis.delval@wsp.com; korev.kennedy@wsp.com	Deliverables: EDD	ADaPT 🗆	Other	.1	

	DC 17.0	TD	Turn Arc						ANA	LYSIS REQUEST	REQU	EST							W	Work Order Notes
Project Name: Project Number:	TE012920158	0158	Routine					_	-	-	\dashv	=	\dashv		\dashv	_	\dashv	-		
P.O. Number:			Rush:																	
me:	Luis Del Val		Due Date:																	
SAMPLE RECEIPT	Temp Blank: Yes	Yes No	Wet Ice: Yes	No					_											
Temperature (°C):	1.2/1.0	The	Thermometer ID	iner))													
Received Intact:	Yes No	1-10	FOO- M	ntai	8	21)	00.0											T		
Cooler Custody Seals:	Yes /No N/A	Correct	Correction Factor: - O	2 00	15))=80	A 3											7	AT star	TAT starts the day recevied by the
Sample Custody Seals:	8	Total (Total Containers: 2	er of	A 80	PA 0	e (EP												lab,	lab, if received by 4:30pm
Sample Identification	ion Matrix	Date Sampled	Time De	Depth	TPH (EF	BTEX (E	Chlorid												Sai	Sample Comments
SS04	S	12/22/2020	1119 (0.5' 1	×	×	×								F					
SS04A	S	12/22/2020	1126	<u></u>	×	×	×		H	-	-						-			
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Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020 : ad Metal(s) to be a	84	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA	Texas 11 Al 010: 8RCRA	Sb dS	As Ba As Ba	Be B Be Cd	B Cd Ca Cd Cr Co	⁵ 당	Co Cu Fe Pb Mg Mn Pb Mn Mo Ni Se Ag	Fe P	Pb Mg lo Ni Se			K Se	§ A	SiO2	Na S	245.	Na Sr TI Sn U V Zn 1631/245.1/7470/7471: Hg
odice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of services. 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.	ent and relinquishment only for the cost of samp	of samples constitut ples and shall not as o each project and a	es a valid purchase o sume any responsible charge of \$5 for each	order from client ility for any loss h sample submi	company es or expo	to Xence	o, its affil surred by not analy	iates and the clien zed. Thes	subcont t if such e terms	ractors. losses a will be e	It assigned the forced	ns stand circum untess p	ard terr stances revious	ns and o beyond y negot	ondition the con ated.	trol				
Relinquished by: (Signature)	nature)	Received by	Received by: (Signature)		Date	Date/Time		Relii	Relinquished by: (Signature)	ed by:	(Signa	iture)		Re	ceive	d by: (Received by: (Signature)	ture)		Date/Time
- 1		ce (hat	8	21	2.22.20 1600	216	& 2	30/23												
							4													
							6	**)												

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 12.22.2020 04.00.00 PM Air and Metal samples Acceptable Range: Ambient

Work Order #: 682306 Temperature Measuring device used : T_NM_007

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

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

Checklist completed by:

Cloe Clifton

Checklist reviewed by:

Jessica Kramer

Date: 12.22.2020

Date: 12.23.2020

PH Device/Lot#:

Analyst:

Page 64 of 102

Certificate of Analysis Summary 682309

WSP USA, Dallas, TX

Project Name: PC 17 CTB

Project Id: Contact:

Project Location:

TE012920158

Dan Moir

Date Received in Lab: Tue 12.22.2020 16:00

Report Date: 12.29.2020 11:45

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	682309-00	1	682309-0	002		
	Field Id:	SS03		SS03A	A		
Anaiysis Kequesiea	Depth:	0.5- ft	0.5- ft				
	Matrix:	SOIL		SOIL	,		
	Sampled:	12.22.2020 10	0:43	12.22.2020	10:49		
BTEX by EPA 8021B	Extracted:	12.22.2020 1	7:30	12.22.2020	17:30		
	Analyzed:	12.22.2020 20	0:28	12.22.2020	20:51		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00199	0.00199		
Toluene		< 0.00200	0.00200	< 0.00199	0.00199		
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199		
m,p-Xylenes		< 0.00401	0.00401	< 0.00398	0.00398		
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199		
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199		
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199		
Chloride by EPA 300	Extracted:	12.28.2020 1	1:46	12.28.2020	11:46		
	Analyzed:	12.28.2020 13	3:42	12.28.2020	13:48		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		106	9.98	93.5	9.94		
TPH by SW8015 Mod	Extracted:	12.28.2020 12	2:00	12.28.2020	12:00		
	Analyzed:	12.28.2020 1	7:56	12.28.2020	18:16		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)	·	<49.8	49.8	< 50.1	50.1		
Diesel Range Organics (DRO)		<49.8	49.8	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	< 50.1	50.1		
Total GRO-DRO		<49.8	49.8	< 50.1	50.1		
Total TPH		<49.8	49.8	< 50.1	50.1		

BRL - Below Reporting Limit

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

Jessica Vramer



Analytical Report 682309

for

WSP USA

Project Manager: Dan Moir

PC 17 CTB
TE012920158
12.29.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (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 (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



12.29.2020

Project Manager: Dan Moir

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 682309

PC 17 CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 682309. 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. 682309 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 682309

WSP USA, Dallas, TX

PC 17 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS03	S	12.22.2020 10:43	0.5 ft	682309-001
SS03A	S	12.22.2020 10:49	1 ft	682309-002

Xenco

Environment Testing

CASE NARRATIVE

Page 68 of 102

Client Name: WSP USA Project Name: PC 17 CTB

Project ID: Report Date: 12.29.2020 TE012920158 Work Order Number(s): 682309 Date Received: 12.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: **SS03** Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682309-001

Date Collected: 12.22.2020 10:43

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

MAB

Seq Number: 3146198

Tech:

Analyst:

Date Prep:

12.28.2020 11:46

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	9.98	mg/kg	12.28.2020 13:42		1

Analytical Method: TPH by SW8015 Mod

CAC Tech:

CAC Analyst: Seq Number: 3146194

Date Prep:

12.28.2020 12:00

% Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	12.28.2020 17:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	12.28.2020 17:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	12.28.2020 17:56	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	12.28.2020 17:56	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	12.28.2020 17:56	U	1
Surrogate	C	as Number **	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	108	%	70-135	12.28.2020 17:56
o-Terphenyl	84-15-1	105	%	70-135	12.28.2020 17:56

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: SS03 Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682309-001 Date Collected: 12.22.2020 10:43 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

1,4-Difluorobenzene

Analyst: MAB Date Prep: 12.22.2020 17:30 % Moisture:

540-36-3

Seq Number: 3146051

Basis: Wet Weight

12.22.2020 20:28

70-130

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.22.2020 20:28	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.22.2020 20:28	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.22.2020 20:28	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.22.2020 20:28	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.22.2020 20:28	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.22.2020 20:28	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.22.2020 20:28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.22.2020 20:28		

104

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: SS03A Matrix:

Date Received:12.22.2020 16:00

Lab Sample Id: 682309-002

Soil Date Collected: 12.22.2020 10:49

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

MAB Analyst:

Tech:

Date Prep:

% Moisture:

Seq Number: 3146198

Basis: Wet Weight

Analysis Date Parameter Cas Number Result RL Units Flag Dil Chloride 16887-00-6 93.5 12.28.2020 13:48 9.94 mg/kg

Analytical Method: TPH by SW8015 Mod

Tech: CAC

CAC Analyst: Seq Number: 3146194

Date Prep:

12.28.2020 12:00

12.28.2020 11:46

% Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	12.28.2020 18:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	12.28.2020 18:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.28.2020 18:16	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	12.28.2020 18:16	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	12.28.2020 18:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	103	%	70-135	12.28.2020 18:16
o-Terphenyl	84-15-1	113	%	70-135	12.28.2020 18:16

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: SS03A Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682309-002 Date Collected: 12.22.2020 10:49 Sample Depth: 1 ft

Prep Method: SW5035A

Analytical Method: BTEX by EPA 8021B

Tech: MAB

MAB Analyst: Date Prep: 12.22.2020 17:30

% Moisture:

Basis: Wet Weight Seq Number: 3146051

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.22.2020 20:51	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.22.2020 20:51	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.22.2020 20:51	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.22.2020 20:51	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.22.2020 20:51	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.22.2020 20:51	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.22.2020 20:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	12.22.2020 20:51		
4-Bromofluorobenzene		460-00-4	122	%	70-130	12.22.2020 20:51		



Flagging Criteria

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

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

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



WSP USA PC 17 CTB

Analytical Method: Chloride by EPA 300

3146198

Analytical Method: Chloride by EPA 300

7717954-1-BLK

250

Matrix: Solid Prep Method: Date Prep: 12.28.2020

RPD

Limit

20

E300P

Seq Number: MB Sample Id:

LCS Sample Id:

7717954-1-BKS

260

206

LCSD Sample Id: 7717954-1-BSD

Parameter

Chloride

MB Spike Result Amount <10.0

LCS Result 260

LCS LCSD %Rec Result LCSD %Rec 104

90-110

Limits

Limits %RPD 0

Units

mg/kg

Units

Analysis Flag Date

Flag

Seq Number:

3146198

Matrix: Soil

104

Prep Method: Date Prep:

12.28.2020

E300P

Parent Sample Id:

682305-001

682305-001 S MS Sample Id:

MSD Sample Id:

RPD

682305-001 SD

12.28.2020 12:30

Parameter

Chloride

Parent Result Amount

<9.98

393

MS Result 206

MS MSD %Rec Result 103

%Rec 104 90-110

MSD

Limit 0 20

%RPD

Analysis Date

12.28.2020 12:48 mg/kg

Analytical Method: Chloride by EPA 300

3146198

Matrix: Soil

Spike

200

Amount

Spike

200

Prep Method:

E300P

Date Prep: 12.28.2020

Parent Sample Id:

682314-001

MS Sample Id: 682314-001 S MS

109

0

MSD Sample Id: 682314-001 SD

Parameter

Chloride

Seq Number:

Parent Result

MS Result %Rec 611

MSD Result

613

MSD %Rec 110

%RPD Limits

RPD Units Limit

mg/kg

Analysis

Flag Date 12.28.2020 14:12

Analytical Method: TPH by SW8015 Mod

Seq Number:

3146194

Matrix: Solid

90-110

SW8015P

MB Sample Id:

7717990-1-BLK

LCS Sample Id:

7717990-1-BKS

Date Prep: LCSD Sample Id: 7717990-1-BSD

12.28.2020

Parameter

Spike LCS LCS

LCSD LCSD Limits

Prep Method:

20

Analysis

Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)

Result Amount < 50.0 1000 < 50.0 1000

MB

102

107

Result %Rec

%Rec

%RPD **RPD** Limit

Units

Date

Result 998 35 100 1080 108 70-135 8 mg/kg

MB%Rec

MB

937 94

102

1060

106

%Rec

101

99

70-135

Flag

12 35

70-135

70-135

12.28.2020 13:52

12.28.2020 13:52 mg/kg

Surrogate

1-Chlorooctane

o-Terphenyl

Flag 103

LCS LCS %Rec Flag

LCSD

LCSD Limits

Units Analysis

Date 12.28.2020 13:52 12.28.2020 13:52

3146194

Analytical Method: TPH by SW8015 Mod

Matrix: Solid

Prep Method:

SW8015P

Parameter

Seq Number:

MB Sample Id: 7717990-1-BLK

MBResult

Date Prep: 12.28.2020

%

%

Analysis

Flag

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

Units mg/kg

Date 12.28.2020 13:32

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result E = MSD/LCSD Result

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

Flag

Flag



WSP USA PC 17 CTB

 Analytical Method:
 TPH by SW8015 Mod
 Prep Method:
 SW8015P

 Seq Number:
 3146194
 Matrix:
 Soil
 Date Prep:
 12.28.2020

 Parent Sample Id:
 682305-001
 MS Sample Id:
 682305-001 S
 MSD Sample Id:
 682305-001 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD **MSD** Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.9 998 980 35 12.28.2020 14:55 1120 112 98 70-135 13 mg/kg 12.28.2020 14:55 Diesel Range Organics (DRO) <49.9 998 1000 100 1130 70-135 12 35 mg/kg 113

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 12.28.2020 14:55 1-Chlorooctane 102 70-135 % 111 12.28.2020 14:55 o-Terphenyl 106 116 70-135 %

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3146051Matrix:SolidDate Prep:12.22.2020MB Sample Id:7717927-1-BLKLCS Sample Id:7717927-1-BKSLCSD Sample Id:7717927-1-BSD

MB Spike LCS LCS Limits %RPD **RPD** Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 12.22.2020 15:42 < 0.00200 0.100 0.0990 99 0.104 5 35 Benzene 104 70-130 mg/kg 12.22.2020 15:42 Toluene < 0.00200 0.100 0.0946 95 0.0977 98 70-130 3 35 mg/kg 12.22.2020 15:42 0.100 0.0997 100 0.104 71-129 4 35 Ethylbenzene < 0.00200 104 mg/kg 12.22.2020 15:42 < 0.00400 0.200 0.204 102 0.212 106 70-135 4 35 m,p-Xylenes mg/kg 12.22.2020 15:42 < 0.00200 0.100 0.102 102 0.103 103 71-133 35 o-Xylene mg/kg

Limits MB LCS LCS LCSD MB LCSD Units Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 12.22.2020 15:42 1,4-Difluorobenzene 105 99 103 70-130 % 105 % 12.22.2020 15:42 4-Bromofluorobenzene 118 112 70-130

 Analytical Method:
 BTEX by EPA 8021B
 Prep Method:
 SW5035A

 Seq Number:
 3146051
 Matrix:
 Soil
 Date Prep:
 12.22.2020

 Parent Sample Id:
 682137-006
 MS Sample Id:
 682137-006 S
 MSD Sample Id:
 682137-006 SD

Parent Spike MS MS MSD **MSD** Limits %RPD **RPD** Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 12.22.2020 16:26 < 0.00201 0.100 0.115 115 0.116 70-130 35 Benzene 116 mg/kg 1 12.22.2020 16:26 109 70-130 35 Toluene < 0.00201 0.100 0.109 0.109 109 0 mg/kg Ethylbenzene < 0.00201 0.100 0.114 114 71-129 35 12.22.2020 16:26 0.113 113 1 mg/kg 35 12.22.2020 16:26 m,p-Xylenes < 0.00402 0.201 0.231 115 0.232 116 70-135 0 mg/kg < 0.00201 0.100 0.113 0.113 71-133 0 35 mg/kg 12.22.2020 16:26 o-Xylene 113 113

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec Date %Rec 12.22.2020 16:26 1,4-Difluorobenzene 102 103 70-130 % 12.22.2020 16:26 4-Bromofluorobenzene 110 112 70-130 %

= MSD/LCSD Result

Page 76 of 102 Pho Proj Project Manager: Company Name: WSP USA Inc. Korey Kennedy

Chain of Custody

Work Order No: 68 2309

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

-								DO NO.
Notes	Work Order Notes	_		EST	ANALYSIS REQUEST	- and only		
						Turn Around	PC 17 CTB	ject Name:
	Ouici.							
	Other:	ADaPT Other		Deliverables: EDD	Email: Juls.gelval@wsp.com; korey.kennedy@wsp.com	Email: juis.delval@		
[] [432 236 3849	one:
N	DRP DW	TSU/TS	evel	Reporting:Level III Revel III PST/UST RRP Byel IV	P: Carlsbad, NM 88220	City, State ZIP:	midialid, IX 79700	
)	Midland TY 79705	V. State ZIP:
			ect:	State of Project:	3104 E Green Street	Address:	Soco Holary Origer	
Tund L	CKC upe	prowilleids		Significant of Clark Chowiniens Ckc Chberrand		•	3300 North A Street	dress:
			1					

Email: luis.delval@wsp	City, State ZIP:	Address:	Company Name: XTO Energy	Bill to: (if different)	
Email: luis.delval@wsp.com; korey.kennedy@wsp.com	City, State ZIP: Carlsbad, NM 88220	3104 E Green Street	XTO Energy	Kyle Littrell	(CO O CO C
Deliverables: EDD ADaPT	Reporting:Level III ST/UST RP vel IV	State of Project:	Program: UST/PST DRP Brownfields DC Linguistical	Work Order Com	
Other:	RRP Bvel IV	Co Cabellana	is BC Chinarian	ments	Tauci C

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	nature)	only for the cost of samples \$75.00 will be applied to es	nd Metal(s) to be and	200.8 / 6020:				1				S	S	ation Matrix	18	Yes No NA	Yes No	1.2/1.0		s Del Val		TE012920158
Jest C	Received by:	and shall not assu	lyzed TC									12/22/2020	12/22/2020	Date Sampled	Total	Correc	MUNIT		75			0158
the state of	(Signature)	ume any responsibil harge of \$5 for each	LP / SPLP 60	RA 13PPM		+						1049	1043		Containers:	tion Factor:	F00-1	ermometer ID	Wet Ice: Ye	Due Date	Rush:	Routine
12		lity for any loss	10: 8RCR/		_							7	0.5'			2.0				J. J.		A
22-2	Date/	t company ies or expe tted to Xer	Sb A	SP S													itair	iers				
0/60	Time	nses incu	s Ba E	Ba								×	×	BTEX (E	EPA 0	=80	21)					
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	Relinqu	e client if d. These t	Cr Co	ι Ω		+						+	-									_
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	Date/Time		U V Zn 7470 / 7471 : Hg											ole Comments	the day recevied by eceived by 4:30pm							The state of the s
	Children 12:22-20 1600) 2	Received by: (Signature) Received by: (Signature) Date/Time 12-22-20 1(600)	vice. Xenco will be liable only for the cost of samples and sale instruces a value purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions reco. 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. Company Company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions to the control of the cost of samples and subcontractors. It assigns standard terms and conditions to the cost of samples and conditions are due to circumstances beyond the control of the cost of samples and subcontractors. 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It assigns standard terms and conditions noo. 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. Telinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received By: (Signatu	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 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 roc. 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. Received by: (Signature) Received by: (Signature) Received by: (Signature) Pate/Time Relinquished by: (Signature) Received by: (Signature)	TCLP / SPLP 6010: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, lts affiliates and subcontractors. It assigns standard terms and conditions vice. 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 selinquished by: (Signature) Received by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature)	Fotal 200.7 / 6010 200.8 / 6020: **Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 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 to sample submitted to Xenco, but not analyzed. 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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 elinquished by: (Signature) Received by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature)	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Ti U 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 toc. 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. Received by: (Signature) Date/Time Relinquished by: (Signature) Received By: (Sign	lotal 200.7 / 6010 200.8 / 6020: 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 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. Received by: (Signature) Received by: (Signature)	Total 200.7 / 8010 200.8 / 8020: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, but most sincured by the client if such losses are due to circumstances beyond the control samples and a 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 proviously negotiated. Proceived by: (Signature) Received by: (Signature)	Total 200.7 / 6010 200.8 / 6020: 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 too. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted by: (Signature) Received by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature)	SS03A S 12/22/2020 1049 1' 1 X X X X X Total 200.7 / 6010 200.8 / 6020: Circle Melhod(s) and Metal(s) to be analyzed	SS03A S 12/22/2020 1043 0.5' 1 X X X X X X X X X X X X X X X X X X	Sampled Sampled United Sampled Sampled United Samples Statement United Samples Statement United Samples Constitutes a valid purchase order from client company to Xanco, lits affiliates and subconfractors. It assigns standard terms and conditions too. A family for the cost of samples constitutes a valid purchase order from client company to Xanco, lits affiliates and subconfractors. It assigns standard terms and conditions too. A family the client if such losses are due to circumstances beyond the control samples control by. (Signature) Received By. (Signature) Rece	Sample Identification Matrix Sampled Sa	Control Operation Cont	Color Custody Seals: Yes No. 1 W.M. Correction Factor: O. Z. To all Containers: D. Total Cont	Colvid India: Colvid Color Color	Sample Temp Blank Cros No Well lost Cros No No No Cros No No No No No No No	AMPLE RECEIPT Temp Blank: Yes No Wet los: Yes No Thermonelar ID	Author Continues Continu

Revised Date 051418 Rev. 2018.1

Work Order Notes

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 12.22.2020 04.00.00 PM Air and Metal samples Acceptable Range: Ambient

Work Order #: 682309 Temperature Measuring device used : T_NM_007

Sa	ample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#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 labe	els/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	t(s)? Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace	e? N/A	

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

Checklist completed by:

Cloe Clifton

Checklist reviewed by:

Jessica Warmer

Date: 12.22.2020

Date: 12.23.2020

PH Device/Lot#:

Analyst:

Page 78 of 102

Certificate of Analysis Summary 682311

WSP USA, Dallas, TX

Project Name: PC 17 CTB

Project Id: Contact:

Project Location:

TE012920158

Dan Moir

Date Received in Lab: Tue 12.22.2020 16:00

Report Date: 12.29.2020 11:45

Project Manager: Jessica Kramer

	502211 001					1
Lab Id:	682311-001					
Field Id:	SS01A					
Depth:	1- ft					
Matrix:	SOIL					
Sampled:	12.22.2020 11:01					
Extracted:	12.22.2020 17:30					
Analyzed:	12.22.2020 21:13					
Units/RL:	mg/kg RI					
	< 0.00200 0.0020	0				
	< 0.00200 0.0020	0				
	< 0.00200 0.0020	0				
	< 0.00399 0.0039	9				
	< 0.00200 0.0020	0				
Extracted:	12.28.2020 11:46					
Analyzed:	12.28.2020 13:54					
Units/RL:	mg/kg RI					
	339 10.	0				
Extracted:	12.28.2020 12:00					
Analyzed:	12.28.2020 18:56					
Units/RL:	mg/kg RI					
·	<50.3 50.	3				
	95.5 50.	3				
	<50.3 50.	3				
	95.5 50.	3				
	95.5 50.	3				
	Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: Depth:	Field Id: Depth:	Field Id: SS01A Depth: 1- ft Matrix: SOIL Sampled: 12.22.2020 11:01 Extracted: 12.22.2020 21:13 Units/RL: mg/kg RL <-0.00200 0.00200 -0.00200 0.00200 -0.00200 0.00200 -0.00200 0.00200 -0.00200 0.00200 -0.00200 0.00200 -0.00200 0.00200 -0.00200 0.00200 -0.00200 0.00200 -0.00200 0.00200 -0.00200 1:46 Analyzed: 12.28.2020 11:46 Analyzed: 12.28.2020 13:54 Units/RL: mg/kg RL	Field Id: SS01A Depth: 1- ft Matrix: SOIL Sampled: 12.22.2020 11:01 Extracted: 12.22.2020 21:13 Units/RL: mg/kg RL <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 Extracted: 12.28.2020 11:46 Analyzed: 12.28.2020 11:46 Analyzed: 12.28.2020 13:54 Units/RL: mg/kg RL 339 10.0 Extracted: 12.28.2020 18:56 Units/RL: mg/kg RL <0.00200 0.00200 Analyzed: 12.28.2020 18:56 Units/RL: mg/kg RL <0.00200 0.00200 Solution of the first	Field Id: SS01A Depth: 1- ft Matrix: SOIL Sampled: 12.22.2020 11:01 Extracted: 12.22.2020 17:30 Analyzed: 12.22.2020 21:13 Units/RL: mg/kg RL -0.00200 0.00200 -0.002

BRL - Below Reporting Limit

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

Jessica Vramer



Analytical Report 682311

for

WSP USA

Project Manager: Dan Moir

PC 17 CTB
TE012920158
12.29.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (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 (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



12.29.2020

Project Manager: Dan Moir

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 682311

PC 17 CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 682311. 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. 682311 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 682311

WSP USA, Dallas, TX

PC 17 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01A	S	12.22.2020 11:01	1 ft	682311-001

Xenco

Environment Testing

CASE NARRATIVE

Page 82 of 102

Client Name: WSP USA Project Name: PC 17 CTB

Project ID: Report Date: 12.29.2020 TE012920158 Work Order Number(s): 682311 Date Received: 12.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 682311

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: SS01A Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682311-001

Date Collected: 12.22.2020 11:01

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep:

12.28.2020 11:46

% Moisture:

Basis: Wet Weight

Seq Number: 3146198

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	339	10.0	mg/kg	12.28.2020 13:54		1

Analytical Method: TPH by SW8015 Mod

Tech:

CAC

CAC Analyst: Seq Number: 3146194

Date Prep: 12.28.2020 12:00 % Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.3	50.3		mg/kg	12.28.2020 18:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	95.5	50.3		mg/kg	12.28.2020 18:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	12.28.2020 18:56	U	1
Total GRO-DRO	PHC628	95.5	50.3		mg/kg	12.28.2020 18:56		1
Total TPH	PHC635	95.5	50.3		mg/kg	12.28.2020 18:56		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	104	%	70-135	12.28.2020 18:56
o-Terphenyl	84-15-1	110	%	70-135	12.28.2020 18:56

Wet Weight

Certificate of Analytical Results 682311

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: SS01A Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682311-001 Date Collected: 12.22.2020 11:01 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3146051

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.22.2020 21:13	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.22.2020 21:13	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.22.2020 21:13	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.22.2020 21:13	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.22.2020 21:13	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.22.2020 21:13	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.22.2020 21:13	U	1
Surrogate	Ca	ıs Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	12.22.2020 21:13	
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.22.2020 21:13	



Flagging Criteria

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

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

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

Seq Number:

Seq Number:

Flag

Flag

Analysis

QC Summary 682311



WSP USA PC 17 CTB

LCSD

LCSD

Analytical Method: Chloride by EPA 300

MB

3146198 Matrix: Solid

Spike

E300P Prep Method:

RPD

%RPD

Limits

Date Prep: 12.28.2020

Units

E300P

E300P

7717954-1-BLK LCS Sample Id: 7717954-1-BKS LCSD Sample Id: 7717954-1-BSD MB Sample Id:

LCS

LCS

Parameter Result Amount Result %Rec Result %Rec Limit Date

Chloride <10.0 250 260 104 90-110 20 12.28.2020 12:30 260 104 0 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: 3146198 Matrix: Soil Date Prep: 12.28.2020

682305-001 S 682305-001 MS Sample Id: MSD Sample Id: 682305-001 SD Parent Sample Id:

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

12.28.2020 12:48 Chloride <9.98 200 206 103 206 104 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: 3146198 Seq Number: Matrix: Soil Date Prep: 12.28.2020

MS Sample Id: 682314-001 S MSD Sample Id: 682314-001 SD 682314-001 Parent Sample Id:

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

Chloride 393 20 12.28.2020 14:12 200 611 109 613 110 90-110 0 mg/kg

Analytical Method: TPH by SW8015 Mod

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3146194 Matrix: Solid Seq Number: Date Prep: 12.28.2020

7717990-1-BLK LCS Sample Id: 7717990-1-BKS LCSD Sample Id: 7717990-1-BSD MB Sample Id:

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis

Parameter Result Limit Result Amount %Rec %Rec Date Result Gasoline Range Hydrocarbons (GRO) 12.28.2020 13:52 998 35 < 50.0 1000 100 1080 108 70-135 8 mg/kg 12.28.2020 13:52 Diesel Range Organics (DRO) 937 70-135 35 < 50.0 1000 94 1060 106 12 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 12.28.2020 13:52 1-Chlorooctane 102 103 101 70-135 %

12.28.2020 13:52 o-Terphenyl 107 102 99 70-135 %

Seq Number: 3146194 Matrix: Solid Date Prep: 12.28.2020

MB Sample Id: 7717990-1-BLK

MBUnits Analysis Flag **Parameter** Result Date

12.28.2020 13:32 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

SW8015P

Prep Method:

Flag

Flag



WSP USA PC 17 CTB

 Analytical Method:
 TPH by SW8015 Mod
 Prep Method:
 SW8015P

 Seq Number:
 3146194
 Matrix:
 Soil
 Date Prep:
 12.28.2020

 Parent Sample Id:
 682305-001
 MS Sample Id:
 682305-001 S
 MSD Sample Id:
 682305-001 SD

Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis
	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1120	112	980	98	70-135	13	35	mg/kg	12.28.2020 14:55
Diesel Range Organics (DRO)	<49.9	998	1000	100	1130	113	70-135	12	35	mg/kg	12.28.2020 14:55

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		102		70-135	%	12.28.2020 14:55
o-Terphenyl	106		116		70-135	%	12.28.2020 14:55

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3146051Matrix:SolidDate Prep:12.22.2020MB Sample Id:7717927-1-BLKLCS Sample Id:7717927-1-BKSLCSD Sample Id:7717927-1-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	0.0990	99	0.104	104	70-130	5	35	mg/kg	12.22.2020 15:42
Toluene	< 0.00200	0.100	0.0946	95	0.0977	98	70-130	3	35	mg/kg	12.22.2020 15:42
Ethylbenzene	< 0.00200	0.100	0.0997	100	0.104	104	71-129	4	35	mg/kg	12.22.2020 15:42
m,p-Xylenes	< 0.00400	0.200	0.204	102	0.212	106	70-135	4	35	mg/kg	12.22.2020 15:42
o-Xylene	< 0.00200	0.100	0.102	102	0.103	103	71-133	1	35	mg/kg	12.22.2020 15:42

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		99		103		70-130	%	12.22.2020 15:42
4-Bromofluorobenzene	118		105		112		70-130	%	12.22.2020 15:42

 Analytical Method:
 BTEX by EPA 8021B
 Prep Method:
 SW5035A

 Seq Number:
 3146051
 Matrix:
 Soil
 Date Prep:
 12.22.2020

 Parent Sample Id:
 682137-006
 MS Sample Id:
 682137-006 S
 MSD Sample Id:
 682137-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.115	115	0.116	116	70-130	1	35	mg/kg	12.22.2020 16:26	
Toluene	< 0.00201	0.100	0.109	109	0.109	109	70-130	0	35	mg/kg	12.22.2020 16:26	
Ethylbenzene	< 0.00201	0.100	0.113	113	0.114	114	71-129	1	35	mg/kg	12.22.2020 16:26	
m,p-Xylenes	< 0.00402	0.201	0.231	115	0.232	116	70-135	0	35	mg/kg	12.22.2020 16:26	
o-Xylene	< 0.00201	0.100	0.113	113	0.113	113	71-133	0	35	mg/kg	12.22.2020 16:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	12.22.2020 16:26
4-Bromofluorobenzene	110		112		70-130	%	12.22.2020 16:26

				Page 88 of 10
City, State ZIP:	Address:	Company Name:	Project Manager:	Tage of 0) 10
Midland, TX 79705	3300 North A Stree	WSP USA Inc.	Korey Kennedy	ENCO

Chain of Custody

Work Order No: 682311

www.xenco.com

Page __

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

Bill to: (if different)

City, State ZIP: N	WSP USA Inc. 3300 North A Street Midland, TX 79705	Company Name: Address: City, State ZIP:	me: XTO Energy 3104 E Green Street P: Carlsbad, NM 88220	Program: UST/PST PRP [State of Project: Reporting:Level II evel III	Work Order Comments /PST □PRP □Brownfields □RC □uperfund □ jject: □ □PST/UST □ RRP □ Bve
Phone: 4	432.236.3849	Email: luis.delval@	Email: luis.delval@wsp.com; korey.kennedy@wsp.com	Deliverables: EDD	DD ADaPT
Project Name:	PC 17 CTB	Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number:	TE012920158	Routine .			
P.O. Number:		Rush:			
Sampler's Name: Li	Luis Del Val	Due Date:			
SAMPLE RECEIPT	Temp Blank: Yes) No	Wet Ice: Yes No			
Temperature (°C):			iers		
Received Intact:	es) No	たののとう	21)		
Cooler Custody Seals:	N/A	Correction Factor: - 0, 2	15)		
Sample Custody Seals:	Yes No N/A	Total Containers:	PA 80		l A I starts the day received by the lab, if received by 4:30pm
Sample Identification	Matrix Sampled	Time Depth	Numb TPH (E BTEX (Sample Comments
SS01A	S 12/22/2020	1101 1'	1 × × ×		
1	The state of the s				
43 A					
39:4					
∥ →	200.8 / 6020: 8F and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA	1 Al Sb As Ba Be B Cd Ca o	Cr Co Cu Fe Pb Mg Mn Mo Ni Cu Pb Mn Mo Ni Se Ag Ti U	K Se Ag SiO2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg
wice: Signature of this docu	e: 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	a valid purchase order from	client company to Xenco, its affiliates and s	ubcontractors. It assigns standard terms and o	
Xenco. A minimum charge	Nanco. 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.	harge of \$5 for each sample s	bmitted to Xenco, but not analyzed. These	terms will be enforced unless previously negot	the control atted.

21 9:

Relinquished by: (Signature)

Received by: (Signature)

12-22-20 1600

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 12.22.2020 04.00.00 PM

Temperature Measuring device used: T_NM_007 Work Order #: 682311

Sampl	e Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cool	ler? 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/ rece	eived? Yes	
#10 Chain of Custody agrees with sample labels/ma	trix? 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

Checklist completed by: Cloe Clifton Date: 12.22.2020 Checklist reviewed by:

Jessica Kramer

Jessica Kramer Date: 12.23.2020

PH Device/Lot#:

Analyst:

eurofins Environment Testing

Certificate of Analysis Summary 682313

WSP USA, Dallas, TX

Project Name: PC 17 CTB

Project Id: Contact:

Project Location:

TE012920158

Dan Moir

Date Received in Lab: Tue 12.22.2020 16:00

Report Date: 12.29.2020 11:46

Project Manager: Jessica Kramer

	Lab Id:	682313-001			
Analysis Requested	Field Id:	SS05			
Analysis Requested	Depth:	0.5- ft			
	Matrix:	SOIL			
	Sampled:	12.22.2020 11:59			
BTEX by EPA 8021B	Extracted:	12.22.2020 17:30			
	Analyzed:	12.22.2020 22:56			
	Units/RL:	mg/kg RL			
Benzene		< 0.00199 0.00199			
Toluene		< 0.00199 0.00199			
Ethylbenzene		< 0.00199 0.00199			
m,p-Xylenes		< 0.00398 0.00398			
o-Xylene		< 0.00199 0.00199			
Total Xylenes		< 0.00199 0.00199			
Total BTEX		< 0.00199 0.00199			
Chloride by EPA 300	Extracted:	12.28.2020 11:46			
	Analyzed:	12.28.2020 14:00			
	Units/RL:	mg/kg RL			
Chloride		599 9.92			
TPH by SW8015 Mod	Extracted:	12.28.2020 12:00			
	Analyzed:	12.28.2020 19:16			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2			
Diesel Range Organics (DRO)		<50.2 50.2			
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2			
Total GRO-DRO		<50.2 50.2			
Total TPH		<50.2 50.2			

BRL - Below Reporting Limit

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

Jessica Kramer



Analytical Report 682313

for

WSP USA

Project Manager: Dan Moir

PC 17 CTB
TE012920158
12.29.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (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 (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



12.29.2020

Project Manager: Dan Moir

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 682313

PC 17 CTBProject Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 682313. 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. 682313 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 682313

WSP USA, Dallas, TX

PC 17 CTB

Sample IdMatrixDate CollectedSample DepthLab Sample IdSS05S12.22.2020 11:590.5 ft682313-001

Xenco

CASE NARRATIVE

Environment Testing Client Name: WSP USA Project Name: PC 17 CTB

Project ID: Report Date: 12.29.2020 TE012920158 Work Order Number(s): 682313 Date Received: 12.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 682313

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: **SS05** Matrix:

16887-00-6

Date Received:12.22.2020 16:00

Lab Sample Id: 682313-001

Soil Date Collected: 12.22.2020 11:59

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB Tech:

Chloride

MAB Analyst:

Date Prep: 12.28.2020 11:46

9.92

% Moisture:

Basis: Wet Weight

12.28.2020 14:00

Prep Method: SW8015P

Seq Number: 3146198

Analysis Date Parameter Cas Number Result RL Units Flag Dil

599

Analytical Method: TPH by SW8015 Mod

Tech: CAC

CAC

Analyst: Seq Number: 3146194 Date Prep: 12.28.2020 12:00 % Moisture:

Basis:

mg/kg

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	12.28.2020 19:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	12.28.2020 19:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.28.2020 19:16	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	12.28.2020 19:16	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	12.28.2020 19:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	100	%	70-135	12.28.2020 19:16
o-Terphenyl	84-15-1	113	%	70-135	12.28.2020 19:16

Wet Weight

Certificate of Analytical Results 682313

WSP USA, Dallas, TX

PC 17 CTB

Sample Id: SS05 Matrix: Soil Date Received:12.22.2020 16:00

Lab Sample Id: 682313-001 Date Collected: 12.22.2020 11:59 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3146051

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.22.2020 22:56	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.22.2020 22:56	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.22.2020 22:56	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.22.2020 22:56	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.22.2020 22:56	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.22.2020 22:56	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.22.2020 22:56	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1 4 D:fl	_	10.26.2	100	0/	70 120	12 22 2020 22 56		



Flagging Criteria

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

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

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

QC Summary 682313



WSP USA PC 17 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3146198

7717954-1-BLK

Matrix: Solid LCS Sample Id:

7717954-1-BKS

Prep Method:

LCSD Sample Id:

RPD

Limit

Prep Method:

E300P

Date Prep: 12.28.2020

7717954-1-BSD

MB Sample Id: **Parameter**

MB

LCS Spike

Amount

250

LCS LCSD

%Rec

104

LCSD %Rec Limits %RPD Units

Analysis Flag Date

Chloride

Result <10.0

Parent

Result

Result 260 Result 260

104

90-110 0

20

mg/kg

12.28.2020 12:30

Analytical Method: Chloride by EPA 300

Seq Number: Parent Sample Id: 3146198

Matrix: Soil

682305-001 S

Date Prep: 12.28.2020 MSD Sample Id: 682305-001 SD

Parameter

682305-001

MS Sample Id: MS MS Result

206

MSD Result

MSD Limits %Rec

%RPD RPD Limit Units

E300P

Analysis Flag

Chloride

<9.98

200

Spike

Amount

103

%Rec

206 104

90-110

0 20 mg/kg

Date 12.28.2020 12:48

Analytical Method: Chloride by EPA 300

Parent Sample Id:

3146198

200

Matrix: Soil

109

682314-001 S

Date Prep:

Limit

20

Prep Method:

35

35

Limits

70-135

Prep Method:

12.28.2020 MSD Sample Id: 682314-001 SD

E300P

Parameter

Seq Number:

682314-001

Spike **Parent** Result Amount

393

MB

Result

< 50.0

MS MS Result %Rec 611

MS Sample Id:

MSD Result

613

MSD %Rec 110

LCSD

%RPD Limits

0

%RPD

12

RPD Units

mg/kg

Analysis Flag Date

12.28.2020 14:12

Chloride

Analytical Method: TPH by SW8015 Mod

3146194

Matrix: Solid

Limits

90-110

SW8015P

Seq Number: MB Sample Id:

7717990-1-BLK

LCS Sample Id: 7717990-1-BKS

LCS

%Rec

Date Prep: 12.28.2020 LCSD Sample Id: 7717990-1-BSD

Parameter

Gasoline Range Hydrocarbons (GRO)

Diesel Range Organics (DRO)

< 50.0 1000 MBMB %Rec Flag

1000

Spike

Amount

998 100 937 94

LCS

LCS

Result

Result 1080 1060

LCSD

%Rec 108 70-135 70-135 106

LCSD

8

LCSD

RPD Units Limit

mg/kg

Units

Analysis Date

12.28.2020 13:52 mg/kg 12.28.2020 13:52

Analysis

Surrogate

1-Chlorooctane o-Terphenyl

102 107

%Rec 103 102

Flag %Rec 101 99

Flag 70-135

Date 12.28.2020 13:52 % 12.28.2020 13:52 %

Analytical Method: TPH by SW8015 Mod 3146194

Matrix: Solid

LCS

Prep Method: Date Prep: SW8015P 12.28.2020

Flag

Flag

Parameter

Seq Number:

MBResult

MB Sample Id: 7717990-1-BLK

Units

Analysis Date

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

12.28.2020 13:32

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

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

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

Flag

Flag



WSP USA PC 17 CTB

 Analytical Method:
 TPH by SW8015 Mod
 Prep Method:
 SW8015P

 Seq Number:
 3146194
 Matrix:
 Soil
 Date Prep:
 12.28.2020

 Parent Sample Id:
 682305-001
 MS Sample Id:
 682305-001 S
 MSD Sample Id:
 682305-001 SD

Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	
- W- W	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1120	112	980	98	70-135	13	35	mg/kg	12.28.2020 14:55	
Diesel Range Organics (DRO)	<49.9	998	1000	100	1130	113	70-135	12	35	mg/kg	12.28.2020 14:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		102		70-135	%	12.28.2020 14:55
o-Terphenyl	106		116		70-135	%	12.28.2020 14:55

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3146051Matrix:SolidDate Prep:12.22.2020MB Sample Id:7717927-1-BLKLCS Sample Id:7717927-1-BKSLCSD Sample Id:7717927-1-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	0.0990	99	0.104	104	70-130	5	35	mg/kg	12.22.2020 15:42
Toluene	< 0.00200	0.100	0.0946	95	0.0977	98	70-130	3	35	mg/kg	12.22.2020 15:42
Ethylbenzene	< 0.00200	0.100	0.0997	100	0.104	104	71-129	4	35	mg/kg	12.22.2020 15:42
m,p-Xylenes	< 0.00400	0.200	0.204	102	0.212	106	70-135	4	35	mg/kg	12.22.2020 15:42
o-Xylene	< 0.00200	0.100	0.102	102	0.103	103	71-133	1	35	mg/kg	12.22.2020 15:42

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		99		103		70-130	%	12.22.2020 15:42
4-Bromofluorobenzene	118		105		112		70-130	%	12.22.2020 15:42

 Analytical Method:
 BTEX by EPA 8021B
 Prep Method:
 SW5035A

 Seq Number:
 3146051
 Matrix:
 Soil
 Date Prep:
 12.22.2020

 Parent Sample Id:
 682137-006
 MS Sample Id:
 682137-006 S
 MSD Sample Id:
 682137-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.115	115	0.116	116	70-130	1	35	mg/kg	12.22.2020 16:26	
Toluene	< 0.00201	0.100	0.109	109	0.109	109	70-130	0	35	mg/kg	12.22.2020 16:26	
Ethylbenzene	< 0.00201	0.100	0.113	113	0.114	114	71-129	1	35	mg/kg	12.22.2020 16:26	
m,p-Xylenes	< 0.00402	0.201	0.231	115	0.232	116	70-135	0	35	mg/kg	12.22.2020 16:26	
o-Xylene	< 0.00201	0.100	0.113	113	0.113	113	71-133	0	35	mg/kg	12.22.2020 16:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	12.22.2020 16:26
4-Bromofluorobenzene	110		112		70-130	%	12.22.2020 16:26

Page 10 of 12

MS = Matrix Spike

Address: City, State ZIP:

Address: City, State ZIP:

Carlsbad, NM 88220 3104 E Green Street XTO Energy Kyle Littrell

RRP bvel IV

Program: UST/PST □PRP □Brownfields □RC

uperfund

www.xenco.com

Page

of

Work Order Comments

State of Project:

Company Name: Bill to: (if different)

432.236.3849 Midland, TX 79705 3300 North A Street WSP USA Inc.

Project Manager: Company Name:

Korey Kennedy

Chain of Custody

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

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

ceive	a py	Swall and	1	Panco. A minimum charge of \$75,00 will	Sice: Signature of this document and rel	Circle Method(s) and Metal(s) to be analyzed	39 Total 200.7 / 6010 200.8	.#J	ALM			de	/			SS05	Sample Identification	Cample Custody Seals: Yes	-	-	9:	SAMPLE RECEIPT	Sampler's Name: Luis Del Val	P.O. Number:	BO N	Project	Project Name:
		Che Chetho	Received by: (Signature)	Il be applied to each project and a charge of	linquishment of samples constitutes a valid	I(s) to be analyzed TCLP / S	8RCRA				Carlo		2			S 12/22/2020 1159	Matrix Date Time Sampled	No) N/A		es) No	Thermometer ID	Temp Blank: (Yes) No We			TE012920158	-0700	PC 17 CTB
		12-22-70 11 cm	ture) Date/Time	enco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	(A) I'ce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and authority of the links of the control of the contr	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co	2 2								× ×	O 7 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Depth Numbe	PA 0:	Cor (15)	itair		Wet Ice: (Yes) No	Due Date:	Rush:	Routine	Turn Around	-
5		2	Relinquished by: (Signature)	analyzed. These terms will be enforced unless p	saffiliatos and subscribed in the Mo IN Ser AG II O	Cd Cr Co Cu Ph Mn Mo Ni So A Ti I				/					×		hloride	E	1 300	0.0)						ANALYSIS REQUEST	
		Received by: (Signature)		ard terms and conditions stances beyond the control reviously negotiated.		Ag SiO2	7											17									
		Date/Time			1631 / 245.1 / 7470 / 7471 : Hg	TI Sn U V Zn										sample comments	Sample Company	TAT starts the day recevied by the							WOLK Order Notes	Work Order	Circi.

Work Order No: 08 28 13

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 12.22.2020 04.00.00 PM Air and Metal samples Acceptable Range: Ambient

Work Order #: 682313 Temperature Measuring device used : T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	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 headsp	ace?	N/A	

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

Checklist completed by:	Cloe Clifton	Date: <u>12.22.2020</u>
Checklist reviewed by:	Jessica Warner Jessica Kramer	Date: <u>12.23.2020</u>

PH Device/Lot#:

Analyst:

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

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

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

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

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

CONDITIONS

Action 17659

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	17659
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2033631417 PIERCE CANYON 17, thank you. This closure is approved.	6/17/2021