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

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Submit to appropriate OCD District office

)

Incident ID	NRM2012953444
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.093951

Longitude ______

(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU PB 25-25-30 USA 001 Battery	Site Type Tank Battery
Date Release Discovered 4-25-2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
Ν	25	258	30E	Eddy

Surface Owner: State 🗴 Federal 🗌 Tribal 🗌 Private (Name:____

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 52 bbls	Volume Recovered (bbls) 52 bbls
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release 52 hb		all of which was recovered and put into an isolated oil

52 bbl produced oil was spilled into impermeable containment, all of which was recovered and put into an isolated oil tank. Oil line was shut in and repaired. The liner was visually inspected and determined to be inadequate. Liner is scheduled for repair and will be returned to impervious condition. Delineation under the liner will be completed by a third party contractor.

Received by OCD: 6/4/20 Form C-141	221 10:04:31 AM State of New Mexico	
Page 2	Oil Conservation Division	1
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	1 4 5 6 4 0 9 11
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Release greater than 25 bbls.
🖌 Yes 🗌 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	ike Bratcher; Rob Hamlet; Victoria Venegas; 'Griswold, Jim, EMNRD'; Morgan, Crisha A; gov on Sunday, April 26, 2020 12:20 PM via email.

Initial Response

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

 \checkmark The source of the release has been stopped.

N/A

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

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell	Title:
Signature:	Date: <u>5-8-20</u> Telephone: <u>432-221-7331</u>
OCD Only	
Received by: Ramona Marcus	Date: <u>5/8/2020</u>

Location:	PLU PB 25-25-30 USA 001 Battery		
Spill Date:	4/25/2020		
	Area 1		
Approximate A	rea =	291.92	cu. ft.
	VOLUME OF LEAK		
Total Crude Oil = 52.00 bbls		bbls	
	TOTAL VOLUME OF LEAK		
Total Crude Oi	Total Crude Oil = 52.00 bbls		
TOTAL VOLUME RECOVERED			
Total Crude Oi	=	52.00	bbls

Oil Conservation Division

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Incident ID	NRM2012953444
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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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗙 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurfacemine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

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

Page 3

- 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: 6/4/202 Form C-141	1 10:04:31 AM State of New M	exico	Incident ID	Page 5 of 183
Page 4	Oil Conservation I	Division	District RP	INKW12012933444
0			Facility ID	
			Application ID	
regulations all operators are public health or the environr failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:	required to report and/or file certain nent. The acceptance of a C-141 rep ate and remediate contamination that	Date:5/13/2021	orrective actions for rele operator of liability sho ace water, human health	eases which may endanger buld their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

Received by OCD: 6/4/2021 10:04:31 AM Form C-141 State of New Mexico

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Incident ID	NRM2012953444	
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Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must be incl	uded in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C) Proposed schedule for remediation (note if remediation plan timeline) 	
Deferral Requests Only: Each of the following items must be confirmed	ed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around product deconstruction.	ction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health, the	environment, or groundwater.
I hereby certify that the information given above is true and complete to rules and regulations all operators are required to report and/or file certain which may endanger public health or the environment. The acceptance of liability should their operations have failed to adequately investigate and surface water, human health or the environment. In addition, OCD acception responsibility for compliance with any other federal, state, or local laws	in release notifications and perform corrective actions for releases f a C-141 report by the OCD does not relieve the operator of remediate contamination that pose a threat to groundwater, tance of a C-141 report does not relieve the operator of
	itle: Environmental Manager
Signature: Da Abardt D	ate: <u>5/13/2021</u>
email: Kyle_Littrell@exxonmobil.com T	elephone:
OCD Only	
Received by:Date:	·
Approved Approved with Attached Conditions of Appr	roval Denied Deferral Approved
Signature: Date	:

Page 5

Received by OCD: 6/4/2021 10:04:31 AM Form C-141 State of New Mexico

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Incident ID	NRM2012953444	
District RP		
Facility ID		
Application ID		

Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be i	included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12 Proposed schedule for remediation (note if remediation plan time 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be confi	irmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production.	duction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health,	the environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD ac responsibility for compliance with any other federal, state, or local la	ertain release notifications and perform corrective actions for releases be of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, ceptance of a C-141 report does not relieve the operator of
Printed Name: Kyle Littrell	Title:Environmental Manager
Signature: De Handt-	Date:5/13/2021
email: Kyle_Littrell@exxonmobil.com	Telephone:
OCD Only	
Received by: Robert Hamlet D	ate: <u>9/8/2021</u>
Approved Approved with Attached Conditions of A	pproval Denied X Deferral Approved
Signature: Robert Hamlet	Date: 9/8/2021

WSP USA

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

May 13, 2021

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

RE: Deferral Request Addendum PLU PB 25-25-30 USA 001 Battery Incident Number NRM2012953444 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following addendum to a Deferral Request submitted September 24, 2020. This Addendum provides an update to the delineation activities completed at the PLU PB 25-25-30 USA 001 Battery (Site), located in Unit N, Section 25, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1), in response to the denial of the Deferral Request by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD expressed concern that the release was not completely delineated horizontally or vertically. Based on the additional delineation activities described below, XTO is submitting this Deferral Request Addendum, requesting deferral of final remediation for Incident Number NRM2012953444 until the Site is reconstructed, and/or the well pad is abandoned.

BACKGROUND

On September 24, 2020, WSP submitted a Deferral Request to the NMOCD for the April 25, 2020 oil line release of 52 barrels (bbls) of crude oil into the lined containment at the Site. A vacuum truck was dispatched to the Site to recover freestanding fluid; approximately 52 bbls of crude oil were recovered from within the lined containment. The liner was inspected and determined to be compromised. XTO reported the release to NMOCD immediately via email on April 26, 2020 and submitted a Release Notification and Corrective Action Form C-141 (Form C-141) on May 8, 2020. The release was assigned Incident Number NRM2012953444.

The Deferral Request detailed site characterization 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). Based on the site characterization, the following Closure Criteria were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

wsp

District II Page 2

- TPH: 100 mg/kg
- Chloride: 600 mg/kg

Deferral was requested due to chloride and/or TPH-impacted soil left in place beneath the lined containment. Delineation samples were collected from boreholes BH01 through BH03 at a depth of 1-foot bgs from beneath the lined containment. Refusal via hand auger was encountered in the boreholes at a hard, indurated caliche at 1-foot bgs. Due to safety restrictions and access issues, use of heavy equipment or drill rig was not possible inside the containment. Alternatively, borehole/pothole BH04/PH01 was advanced to a depth of 4 feet bgs directly adjacent to the south side of the containment to confirm the vertical extent of the release. An estimated 368 cubic yards of impacted soil remains in-place. The impacted soil is limited to the area immediately beneath the lined containment where remediation would require a major facility deconstruction.

On March 3, 2021, NMOCD denied the Deferral Request for Incident Number NRM2012953444 for the following reason:

• Before we can approve a deferral the spill must be fully delineated. Continue to horizontally delineate sample points to 600 mg/kg for chlorides and TPH to 100 mg/kg on the outer edges/periphery of the release area. PH01A serves to delineate the spill on the south side of the release area. The OCD needs vertical delineation underneath the liner where the release actually took place. Please find a safe expectable area to vertically delineate the release inside the boundary of the battery.

ADDITIONAL DELINEATION ACTIVITIES

On March 30, 2021, WSP personnel returned to the Site to conduct additional delineation activities in response to the reason for denial. WSP utilized a Shaw Tool, Ltd Portable Core Drill to delineate the vertical extent of impacted soil beneath the liner. Due to the location of the release, a Hot Work Permit was necessary to conduct investigative motor or electric powered drilling methods within 35 feet of any hydrocarbon sources. In coordination with XTO, an XTO safety representative was retained to conduct air monitoring as part of the permit process for investigative core drilling activities.

One core hole (CH01) was advanced within the lined containment to delineate the vertical extent of impacted soil. The original locations of boreholes BH01 through BH03 were not accessible by the core drill due to proximity to active production equipment. Three additional core holes (CH02 through CH04) were advanced on the north, east, and west sides of the lined containment to confirm lateral delineation. Core holes CH01 through CH04 were advanced to a depth of 4 feet bgs. Two delineation soil samples were collected from each core hole at depths of 1 foot and 4 feet bgs. Soil from the core holes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for the core holes were logged on vsp

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lithologic/soil sampling logs, which are included in Attachment 1. The delineation soil sample locations are depicted on Figure 2. Following delineation activities, the tear in the liner was bonded and repaired by XTO to restore the integrity of the liner.

The delineation 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 Eurofins Xenco Laboratories (Eurofins Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from core holes CH01 through CH04 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. The soil sample analytical results are summarized in Table 1 and laboratory analytical reports are included in Attachment 2.

DEFERRAL REQUEST

TPH and chloride impacts to soil were identified beneath the liner at 1-foot bgs in boreholes BH01 through BH03. Additional delineation was completed within and around the lined containment to delineate the lateral and vertical extent of impacted soil remaining in place. Based on the laboratory analytical results for the delineation soil samples, the impacted soil remaining in place beneath the liner is delineated vertically by delineation soil samples CH01/CH01A and laterally by delineation soil samples CH02/CH02A through CH04/CH04A and BH04/PH01/PH01A. A maximum of 368 cubic yards of impacted soil remain in place beneath the liner.

WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs and the lined containment will restrict potential vertical migration of residual impacts. Based on the additional delineation samples as presented in this addendum which provide full vertical and lateral delineation of the release, XTO respectfully requests deferral of final remediation for Incident Number NRM2012953444 until final reclamation of the well pad or major construction, whichever comes first.

wsp

District II Page 4

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

Sincerely,

WSP USA, INC.

Elizabeth Naka

Elizabeth Naka Assistant Consultant

Ashley L. Ager, P.G.

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

cc: Kyle Littrell, XTO Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Attachment 1 Lithologic / Soil Sample Log
- Attachment 2 Laboratory Analytical Results

FIGUR

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P:\XTO Energy\GIS\MXD\012920072_PHANTOM BANKS 25-25-30 USA BATTERY\012920072_FIG01_SL_RECEPTOR_2020.mxd



TABLES

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Table 1

Soil Analytical Results PLU PB 25-25-30 USA 001 Battery Incident Number NRM2012953444 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 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Delineation Samples	5									
BH01	05/11/2020	1	< 0.0250	8.20	841	4,680	371	5,520	5,890	880
BH02	05/11/2020	1	< 0.0500	17.8	2,990	15,800	1,070	18,800	19,900	196
BH03	05/11/2020	1	< 0.00260	0.767	254	3,200	271	3,450	3,730	962
BH04	05/11/2020	1	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	124
PH01	06/10/2020	2	< 0.00198	< 0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	25.6
PH01A	06/10/2020	4	< 0.00201	< 0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	18.2
CH01	03/30/2021	1	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	29.3
CH01 A	03/30/2021	4	< 0.00198	< 0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	10.4
CH02	03/30/2021	1	< 0.00202	< 0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	37.8
CH02A	03/30/2021	4	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	26.2
CH03	03/30/2021	1	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	11.6
CH03A	03/30/2021	4	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	9.27
CH04	03/30/2021	1	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	573
CH04A	03/30/2021	4	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	291

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

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									BH or PH Name:	Da	ate:	
					VV S	P USA			PH01	6/	10/2020	
				5	08 West S	Stevens S	Street		Site Name: PLU Phantom			
				Car	lsbad, Ne	w wiexico	00220		RP or Incident Number: N		3444	
		1.177.1			CAND		<u>_</u>		LTE Job Number: TE0129			
Lat/Lo	na.			GIC / SOIL	Field Scre		9		Logged By: SL Hole Diameter:		ethod: Backhoe otal Depth:	
					Chloride, I	-				4'		
Comm	nents:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithc	ology/Ren	narks	
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										Τι	otal Depth: 4 feet bgs	

										1.		
					WS	P USA			BH or PH Name:		Date:	
									BH01		5/11/2020	
				5 Car	08 West S Isbad, Ne	stevens S	street 88220		Site Name: PLU Phanton			-
				Cal	isbau, nic		00220		RP or Incident Number: N LTE Job Number: TE012		103444	-
				SIC / SOIL	SAMD		G		Logged By: SL		Method: Hand Auger	
Lat/Lo	na:	L1111			Field Scre		5		Hole Diameter:		Total Depth:	
					Chloride, I			4.25"		1'		
Comm	ients:									i		
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Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lith	ology/Re	emarks	
						0		CALICH no stain,	E gravel w/ sand, tar no odor	n-brown,	dry, 1-2" gravel, well graded	١,
dry	1,043	944	n	BH01	1	1						
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					WS	P USA						
							Area -		BH02		5/11/2020	
				5 Car	08 West S Isbad, Ne	Stevens S w Mexico	street 88220		Site Name: PLU Phanton			
				Gui			00220		RP or Incident Number: N LTE Job Number: TE012		JJJ3444	-+
				GIC / SOIL	SAMD		G		Logged By: SL		Method: Hand Auger	
Lat/Lo	na.				Field Scre			Hole Diameter:		Total Depth:		
Laveo	iig.				Chloride, I				4.25"		1'	
Comm	ients:											
nt re) de	r (br	#	Sample		USCS/Rock Symbol					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	Depth	S/R mb		Lithe	ology/Re	emarks	
ΩQ	Ch (p	> 9	Sta	Sar	(ft bgs)	(ft bgs)	SC					
						0						a al
					L 1	0	CCHE	CALICH no stain	E gravel w/ sand, tar no odor	n-brown,	dry, 1-2" gravel, well grad	ea,
					-	-						
dry	262	1119	n	BH02	1	1						
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					-	-					Total Depth: 1 foot bgs	
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								BH or PH Name:	Dat	e:	
				WS	P USA			BH03		1/2020	
			5	08 West S	Stevens S	Street		Site Name: PLU Phantom			
			Car	Isbad, Ne	w Mexico	88220		RP or Incident Number: N			
								LTE Job Number: TE012	920072		
	LITHO	LOG	IC / SOIL			G		Logged By: SL		thod: Hand Auger	
Lat/Long:				Field Scre				Hole Diameter: 4.25"	Tota 1'	al Depth:	
Comments:				Chloride, I	סוי			4.25	Т		
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/Rem	arks	
dry 262	327.4	n	BH03	1 1	0		no stain,	no odor	n-brown, dr	y, 1-2" gravel, well grad	ded,
							Auger re	fusal	To	tal Depth: 1 foot bgs	

										L_	N-1-	
					WS	P USA			BH or PH Name:		Date:	
									BH04		5/11/2020	
				5	08 West S Isbad, Ne	stevens S	street 88220		Site Name: PLU Phantom			
				Cal	isbau, ne		00220		RP or Incident Number: N LTE Job Number: TE012		53444	
		1.171.1		SIC / SOIL	SAMD		G				Anthody Hand August	
Lat/Lo	na.				Field Scre		9		Logged By: SL Hole Diameter:		/lethod: Hand Auger Total Depth:	-
LavLU	y.				Chloride, F				4.25"	1		
Comm	ients:								•			
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ure	Chloride (ppm))) (L	ng	Sample #	Sample	Donth	USCS/Rock Symbol					
Moisture Content	llori opm	Vapor (ppm)	Staining	Idm	Depth	Depth (ft bgs)	/S/F		Litho	ology/Re	marks	
ĕö	Ch	> 3	Š	Saı	(ft bgs)	(11 093)	JSC Sy					
						0			Faravel w/ sand ton	1-brown	dry, 1-2" gravel, well graded	4
						т	COME	no stain.	no odor	. 5100011,	ary, 12 graver, well graded	ч,
dry	<186	2.3	n	BH04	1	1		Augor	fucal			
						_		Auger re	nusal			
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									BH or PH Name:	Date:			
					WS	P USA			CH01	3/30/2021			
				5	08 West S	Stovons S	troot		Site Name: PLU PB 25-2				
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Number:	20-00			
									LTE Job Number: TE012	2920072			
		LITH	OLOO	SIC / SOIL	. SAMPL	ING LO	G		Logged By:		Vet Core Drill		
Lat/Lor					Field Scre		_		Hole Diameter:	Total Dep			
	941,-103.8	835973			Chloride, I	PID			1.5'	4'			
Commo	ents:												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/Remarks				
						0					lidated, some small		
wet	<168	1.0	n	CH01	- - 1 -	0.5		SANDS7 consolid	ome oder, trace stai ONE w/caliche grav ated, medium-coars aw small chert grave	vel, wet, brown-li e grain, well gra	ded, some tan caliche		
wet	<168	2.1	n		- - -	2							
wet	<168	2.1	m	CH01A	4	3							
										Total Do	epth: 4 feet bgs		
					-	-							

										Data	
					WS	P USA			BH or PH Name:	Date:	
									CH02	3/30/2021	
				5	08 West S	Stevens S	Street		Site Name: PLU PB 25-2		
				Car	Isbad, Ne	WIVIEXICO	00220		RP or Incident Number: N		
									LTE Job Number: TE012		
		LITH	OLOC	SIC / SOIL			G		Logged By:	Method: Wet C	Core Drill
Lat/Lor	ng: 941,-103.8	025072			Field Scre				Hole Diameter:	Total Depth:	
Comme		555975			Chloride, I	סוי			1.5'	4'	
Comm	onto.										
				4			×				
Moisture Content	Chloride (ppm)	n) D	Staining	le ⊭	Sample	Depth	USCS/Rock Symbol				
ont	nlor ppr	Vapor (ppm)	ain	B and the second			SS/ ym		Lith	ology/Remarks	
ΣU	Ū,	/)	S	Sa	(ft bgs)	(- 5-/	SC				
					r I	0		CALICH	E, dry, light brown-ta	n poorly consolidat	ed some small
						Ľ			ome oder, trace stai		
					_			.			
		_									
wet	<168	0.3	n	CH02	1 _	1	SW-S		ONE w/caliche grav		
					-	F			ated, medium-coarse w small chert grave		, some tan caliche
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wet	<168	0.0	n		-	2					
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wet	<168	0.0	n	CH02A	4	4					
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									BH or PH Name:	Date:			
					WS	P USA			CH03	3/30/2021			
					i08 West S	Stovens	Stroot		Site Name: PLU PB 25-25				
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Number: N				
									LTE Job Number: TE012920072				
		ІТН		SIC / SOIL	SAMPI	INGLO	G		Logged By: TC/BB	Method: Wet Core D	rill		
Lat/Lor	na:		2200		Field Scre		-		Hole Diameter:	Total Depth:			
	941,-103.8	835973			Chloride, I	-			1.5'	4'			
Comm	ents:												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	logy/Remarks			
						0			E, dry, light brown-tan ome oder, trace stain	n, poorly consolidated, s , fill	ome small		
wet	<168	0.3	n	CH03	1	1	SW-S	consolida		el, wet, brown-light brow grain, well graded, som no stain, no odor			
wet	257.6	0.1	n		-	2							
					- - - -	3							
wet	<168	0.0	n	CH03A	4	4							
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					MS	P USA			BH or PH Name:	Date:	
									CH04	3/30/202	1
				5	08 West S	Stevens S	Street		Site Name: PLU PB 25-25-		
				Car	lsbad, Ne	w wexico	88220		RP or Incident Number: NF		
									LTE Job Number: TE01292		
		LITH	OLOC	GIC / SOIL			G		Logged By: TC/BB		Wet Core Drill
Lat/Lor	ng: 941,-103.8	935070			Field Scre				Hole Diameter:	Total Dep	oth:
32.093 Comm		635973			Chloride, I	PID			1.5'	4'	
Comm	onto.										
				#			×				
Moisture Content	Chloride (ppm)	л) c	Staining	Sample #	Sample	Depth	USCS/Rock Symbol				
oist	Indu Indu	Vapor (ppm)	tain	du	Depth	(ft bgs)	SS/ ym		Lithol	ogy/Remarks	
Σü	<u></u> 0	/ _	õ	Sa	(ft bgs)	(U)	SC				
						0		CALICH	E, dry, light brown-tan	. poorly conso	lidated, some small
					<u> </u>	ľ	CONE		ome oder, trace stain,		some onion
					_	L					
	500	0.0		0116.1			0141 0	OANDO			Palitics 9
wet	520	0.2	n	CH04	1	1	SW-S		ONE w/caliche grave		light brown, well aded, some tan caliche
					-	F			ew small chert gravel,		
					-	t		9.0701, 10			
wet	364.0	0.1	n			2					
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wet	229	0.1	n	CH04A	4	4					
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🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-462-1

Laboratory Sample Delivery Group: TE012920072 Client Project/Site: Phantom Banks 25-25-30

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Dan Moir

RAMER

Authorized for release by: 4/12/2021 5:45:58 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/8/2021 2:42:16 PM

Laboratory Job ID: 890-462-1

SDG: TE012920072

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Sample Summary	15
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Client: WSP USA Inc. Project/Site: Phantom Banks 25-

Demittons/Glossary	
SA Inc. Job ID: 890-462-1 nantom Banks 25-25-30 SDG: TE012920072	2
	3
Qualifier Description Indicates the analyte was analyzed for but not detected.	4
	5
Qualifier Description LCS and/or LCSD is outside acceptance limits, high biased.	6

Qualifiers

GC Semi VOA

GC VOA Qualifier

U

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TFO	

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ

TNTC

Job ID: 890-462-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-462-1

Receipt

The samples were received on 3/31/2021 1:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH01 (890-462-1) and CH01 A (890-462-2).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Project/Site: Phantom Banks 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00199 U

RL

0.00199

Unit

mg/Kg

D

Prepared

04/06/21 16:49

Job ID: 890-462-1 SDG: TE012920072

Client Sample ID: CH01

Date Collected: 03/30/21 10:34 Date Received: 03/31/21 13:21

Sample Depth: -1

Analyte

Benzene

Client: WSP USA Inc.

Lab Sample ID: 890-462-1

Analyzed

04/07/21 05:22

Matrix: Solid

5 Dil Fac

1

		-				•	• • • • • • • • •	
Toluene	<0.00199	U	0.00199	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
Total BTEX	<0.00199	U	0.00199	mg/Kg		04/06/21 16:49	04/07/21 05:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			04/06/21 16:49	04/07/21 05:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130			04/06/21 16:49	04/07/21 05:22	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0	mg/Kg		04/02/21 09:33	04/02/21 20:48	
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/02/21 09:33	04/02/21 20:48	
C10-C28)	-50.0		50.0			04/00/04 00:00	04/00/04 00:40	
Oll Range Organics (Over C28-C36)	<50.0		50.0	mg/Kg		04/02/21 09:33	04/02/21 20:48	
Total TPH	<50.0	U	50.0	mg/Kg		04/02/21 09:33	04/02/21 20:48	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	113		70 - 130			04/02/21 09:33	04/02/21 20:48	
o-Terphenyl	121		70 - 130			04/02/21 09:33	04/02/21 20:48	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.3		4.95	mg/Kg			04/11/21 20:52	
lient Sample ID: CH01 A						Lab Sa	mple ID: 890	-462-2
ate Collected: 03/30/21 10:49								x: Solic
ate Received: 03/31/21 13:21								
amula Dantha d								

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		04/06/21 16:49	04/07/21 05:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/06/21 16:49	04/07/21 05:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130			04/06/21 16:49	04/07/21 05:42	1

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30

Client Sample ID: CH01 A

Date Collected: 03/30/21 10:49 Date Received: 03/31/21 13:21

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U *+	50.1	mg/Kg		04/02/21 09:33	04/02/21 21:10	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		04/02/21 09:33	04/02/21 21:10	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/02/21 09:33	04/02/21 21:10	1
Total TPH	<50.1	U	50.1	mg/Kg		04/02/21 09:33	04/02/21 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			04/02/21 09:33	04/02/21 21:10	1
o-Terphenyl	136	S1+	70 - 130			04/02/21 09:33	04/02/21 21:10	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.00	mg/Kg			04/11/21 20:58	1

Job ID: 890-462-1 SDG: TE012920072

SDG: TE012920072

Prep Type: Total/NA

Prep Type: Total/NA

Page 34 of 183

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-462-1	CH01	127	106	
90-462-2	CH01 A	112	94	
CS 880-1404/1-A	Lab Control Sample	104	105	
CSD 880-1404/2-A	Lab Control Sample Dup	105	106	
//B 880-1404/5-A	Method Blank	105	97	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Γ				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-462-1	CH01	113	121		
890-462-2	CH01 A	131 S1+	136 S1+		13
LCS 880-1228/2-A	Lab Control Sample	116	114		
LCSD 880-1228/3-A	Lab Control Sample Dup	117	114		
MB 880-1228/1-A	Method Blank	109	119		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A	
Marketing O all al	

Matrix: Solid Analysis Batch: 1370

Analysis Batch: 1370							Prep Bate	:h: 1404
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/06/21 16:49	04/07/21 00:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130			04/06/21 16:49	04/07/21 00:34	1

Lab Sample ID: LCS 880-1404/1-A Matrix: Solid

Analysis Batch: 1370

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	
Toluene	0.100	0.09651		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 _ 130	
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1404/2-A Matrix: Solid

Analysis Batch: 1370								Pre	p Batch	: 1404
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene		0.100	0.1047		mg/Kg		105	70 - 130	0	35
Toluene		0.100	0.09625		mg/Kg		96	70 - 130	0	35
Ethylbenzene		0.100	0.09959		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene		0.200	0.1955		mg/Kg		98	70 - 130	1	35
o-Xylene		0.100	0.09893		mg/Kg		99	70 - 130	2	35
Summa mata	LCSD LCSD	Limite								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 1404

nits						
- 130					-	
- 130						
- 130						
- 130						
- 130						

Prep Type: Total/NA

Prep Type: Total/NA

5 6 7

Client Sample ID: Method Blank

QC Sample Results

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-1228/1	-A										Client Sa	mple ID:	Method	Blank
Matrix: Solid												-	Type: To	
Analysis Batch: 1237													p Batcl	
		ΜВ	МВ											
Analyte	Re	sult	Qualifier	RL			Unit		D	Pr	epared	Analy	zed	Dil Fac
Gasoline Range Organics	<5	50.0	U				mg/Kg		_	04/02	2/21 09:33	04/02/21		1
(GRO)-C6-C10							0 0							
Diesel Range Organics (Over C10-C28)	<5	50.0	U	50.0			mg/Kg			04/02	2/21 09:33	04/02/21	12:15	1
Oll Range Organics (Over C28-C36)	<5	50.0	U	50.0			mg/Kg			04/02	2/21 09:33	04/02/21	12:15	1
Total TPH		50.0		50.0			mg/Kg				2/21 09:33	04/02/21		1
										• • -				
0		MB	MB	1								A		011 5
Surrogate	%Recov	109	Qualifier	<u>Limits</u> 70 - 130							epared	Analy 04/02/21		Dil Fac
1-Chlorooctane											2/21 09:33			1
o-Terphenyl		119		70 - 130						04/02	2/21 09:33	04/02/21	12.15	1
Lab Sample ID: LCS 880-1228/	2-A								C	ient	Sample	D: Lab C	ontrol S	Sample
Matrix: Solid												Prep	Type: To	otal/NA
Analysis Batch: 1237												Pre	p Batch	h: 1228
				Spike	LCS	LCS						%Rec.		
Analyte				Added	Result	Quali	ifier	Unit		D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10				1000	1363	*+		mg/Kg			136	70 - 130		
Diesel Range Organics (Over				1000	1084			mg/Kg			108	70 - 130		
C10 C28)														
C10-C28)	LCS	LCS												
	LCS %Recovery		lifier	Limits										
Surrogate	%Recovery		ifier	Limits										
Surrogate 1-Chlorooctane	%Recovery 116		ifier	70 - 130										
Surrogate 1-Chlorooctane	%Recovery		ifier											
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 116 114		ifier	70 - 130				Cli	ent	Sam	ple ID: La	ab Contro	ol Samp	ole Dup
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228	%Recovery 116 114		ifier	70 - 130				Cli	ent	Sam	ple ID: La	ab Contro Prep	-	
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1220 Matrix: Solid	%Recovery 116 114		ifier	70 - 130				Cli	ent	Sam	ple ID: Li	Prep	Type: To	otal/NA
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1220 Matrix: Solid	%Recovery 116 114		ifier	70 - 130 70 - 130	LCSD	LCSE)	Cli	ent	Sam	ple ID: La	Prep	-	otal/NA h: 1228
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1220 Matrix: Solid Analysis Batch: 1237	%Recovery 116 114		ifier	70 - 130				Cli	ent	Sam		Prep Pre	Type: To	otal/NA h: 1228 RPC
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics	%Recovery 116 114		ifier	70 - 130 70 - 130 Spike	LCSD Result 1217				ent		ple ID: La <u>%Rec</u> 122	Prep Pre %Rec.	Type: To ep Batcl	otal/NA h: 1228 RPC Limi
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 116 114		ifier	70 - 130 70 - 130 Spike Added	Result			Unit	ent		%Rec	Prep Pre %Rec. Limits	Type: To ep Batch 	h: 1228 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 116 114		ifier	70 - 130 70 - 130 Spike Added 1000	Result 1217			<mark>Unit</mark> mg/Kg	ent		%Rec	Prep Pre %Rec. Limits 70 - 130	Type: To ep Batch 	h: 1228 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 116 114 8/3-A	Qual		70 - 130 70 - 130 Spike Added 1000	Result 1217			<mark>Unit</mark> mg/Kg	ent		%Rec	Prep Pre %Rec. Limits 70 - 130	Type: To ep Batch 	h: 1228 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery 116 114 8/3-A	Qual		70 - 130 70 - 130 Spike Added 1000	Result 1217			<mark>Unit</mark> mg/Kg	ent		%Rec	Prep Pre %Rec. Limits 70 - 130	Type: To ep Batch 	h: 1228 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	%Recovery 116 114 8/3-A	Qual		70 - 130 70 - 130 Spike Added 1000	Result 1217			<mark>Unit</mark> mg/Kg	ent		%Rec	Prep Pre %Rec. Limits 70 - 130	Type: To ep Batch 	h: 1228 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	%Recovery 116 114 8/3-A <i>LCSD</i> %Recovery	Qual		70 - 130 70 - 130 Spike Added 1000 1000	Result 1217			<mark>Unit</mark> mg/Kg	ent		%Rec	Prep Pre %Rec. Limits 70 - 130	Type: To ep Batch 	h: 1228 RPE Limi
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl	%Recovery 116 114 8/3-A %Recovery 117 114	Qual LCSI Qual	D ifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			<mark>Unit</mark> mg/Kg	ent		%Rec	Prep Pre %Rec. Limits 70 - 130	Type: To ep Batch 	h: 1228 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion	%Recovery 116 114 8/3-A %Recovery 117 114 n Chromato	Qual LCSI Qual	D ifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			<mark>Unit</mark> mg/Kg	ent	<u>D</u> .	%Rec	Prep 7 Pre %Rec. Limits 70 - 130 70 - 130	Type: Top p Batch RPD 11 6	otal/NA h: 1228 RPE Limi 20
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-1542/1	%Recovery 116 114 8/3-A %Recovery 117 114 n Chromato	Qual LCSI Qual	D ifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			<mark>Unit</mark> mg/Kg	ent	<u>D</u> .	%Rec	Prep 7 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch RPD 11 6 Method	h: 1228 RPC Limit 20 20
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Iou Lab Sample ID: MB 880-1542/1 Matrix: Solid	%Recovery 116 114 8/3-A %Recovery 117 114 n Chromato	Qual LCSI Qual	D ifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			<mark>Unit</mark> mg/Kg	ent	<u>D</u> .	%Rec	Prep 7 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch RPD 11 6	h: 1228 RPC Limit 20 20
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1228 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-1542/1 Matrix: Solid	%Recovery 116 114 8/3-A %Recovery 117 114 n Chromato -A	Qual LCSI Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217			<mark>Unit</mark> mg/Kg	ent	<u>D</u> .	%Rec	Prep 7 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch RPD 11 6 Method	h: 1228 RPD Limit 20 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1224 Matrix: Solid Analysis Batch: 1237 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, loi Lab Sample ID: MB 880-1542/1 Matrix: Solid Analysis Batch: 1625 Analyte	%Recovery 116 114 8/3-A %Recovery 117 114 n Chromato -A	Qual LCSI Qual Dgra	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1217 1150	Quali		<mark>Unit</mark> mg/Kg	D	<u>D</u> -	%Rec	Prep 7 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch RPD 11 6 Method Type: §	h: 1228 RPD Limit 20 20

Job ID: 890-462-1

SDG: TE012920072

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QC Sample Results

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1542/2-A Matrix: Solid Analysis Batch: 1625					Client	t Sample	ID: Lab Co Prep	ontrol S Type: S	
·····,····	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	254.2		mg/Kg		102	90 - 110		
Lab Sample ID: LCSD 880-1542/3-A				Clie	nt San	nple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid								Type: S	
Analysis Batch: 1625									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	245.1		mg/Kg		98	90 _ 110	4	20

QC Association Summary

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30

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8 9

Job ID: 890-462-1 SDG: TE012920072

GC VOA

Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Total/NA	Solid	8021B	1404
890-462-2	CH01 A	Total/NA	Solid	8021B	1404
MB 880-1404/5-A	Method Blank	Total/NA	Solid	8021B	1404
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	8021B	1404
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1404
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Prep Batch: 1404					
890-462-1	CH01	Total/NA	Solid	5035	
890-462-2	CH01 A	Total/NA	Solid	5035	
MB 880-1404/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 1228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Total/NA	Solid	8015NM Prep	
890-462-2	CH01 A	Total/NA	Solid	8015NM Prep	
MB 880-1228/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1228/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1237

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-462-1	CH01	Total/NA	Solid	8015B NM	1228
890-462-2	CH01 A	Total/NA	Solid	8015B NM	1228
MB 880-1228/1-A	Method Blank	Total/NA	Solid	8015B NM	1228
LCS 880-1228/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1228
LCSD 880-1228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1228

HPLC/IC

Leach Batch: 1542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-462-1	CH01	Soluble	Solid	DI Leach	
890-462-2	CH01 A	Soluble	Solid	DI Leach	
MB 880-1542/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1542/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1542/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1625

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-462-1	CH01	Soluble	Solid	300.0	1542
890-462-2	CH01 A	Soluble	Solid	300.0	1542
MB 880-1542/1-A	Method Blank	Soluble	Solid	300.0	1542
LCS 880-1542/2-A	Lab Control Sample	Soluble	Solid	300.0	1542
LCSD 880-1542/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1542

Lab Chronicle

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30

Client Sample ID: CH01

Date Collected: 03/30/21 10:34 Date Received: 03/31/21 13:21

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 05:22	AJ	XM
Total/NA	Prep	8015NM Prep			1228	04/02/21 09:33	DM	XM
Total/NA	Analysis	8015B NM		1	1237	04/02/21 20:48	AJ	XM
Soluble	Leach	DI Leach			1542	04/08/21 15:27	SC	XM
Soluble	Analysis	300.0		1	1625	04/11/21 20:52	СН	XM

Client Sample ID: CH01 A Date Collected: 03/30/21 10:49 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 05:42	AJ	XM
Total/NA	Prep	8015NM Prep			1228	04/02/21 09:33	DM	XM
Total/NA	Analysis	8015B NM		1	1237	04/02/21 21:10	AJ	XM
Soluble	Leach	DI Leach			1542	04/08/21 15:27	SC	XM
Soluble	Analysis	300.0		1	1625	04/11/21 20:58	СН	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Lab Sample ID: 890-462-1 Matrix: Solid

Matrix: Solid

Job ID: 890-462-1

SDG: TE012920072

Lab Sample ID: 890-462-2

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Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30 Job ID: 890-462-1 SDG: TE012920072

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	P	rogram	Identification Number	Expiration Date
exas	N	ELAP	T104704400-20-21	06-30-21
• ,		ut the laboratory is not certil	fied by the governing authority. This list ma	ay include analytes for v
the agency does not o Analysis Method		Matrix	Analyte	
the agency does not o Analysis Method 8015B NM	fter certification . Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

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Project/Site: Phantom Banks 25-25-30

Job ID: 890-462-1 SDG: TE012920072

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XM
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
3015NM Prep	Microextraction	SW846	XM
OI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc. Project/Site: Phantom Banks 25-25-30 Job ID: 890-462-1 SDG: TE012920072

ab Sample ID.	Client Sample ID	Matrix	Collected	Received	Depth	
90-462-1	CH01	Solid	03/30/21 10:34	03/31/21 13:21	- 1	
90-462-2	CH01 A	Solid	03/30/21 10:49	03/31/21 13:21	- 4	
						5
						8
						9
						1
						1

61010101	Relinquished by: (Signature) Received b	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Circle Addition Circle Addition Notice: State Circle Addition Not Ni K Se A 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.						A 5 3	(Hol S 3/3dz1	Sample Identification Matrix Date Sampled	s: Yes No N/A	Cooler Custody Seals: Yes (No N/A Correc	31: 1.0 1.0-8	qme	Sampler's Name: Travis Casey	P.O. Number: NRN 201295 3444	Project Number: TEN2920072	Project Name: Planton Backs 25-25.	Phone: (432) 704-5178	City, State ZIP: Midland, TX 79705	Address: 3300 North A St. Bldg 1, Unit 222	14	Project Manager: Tacoma Morrissey	Hobbs	XENCO
	Received by: (Signature)	8RCRA 13PPM Texas 11 TCLP / SPLP 6010: 0RC stitutes a valid purchase order from ci stassume any responsibility for any i of a sharge of S6 for each sample su					•	1049 4	1034 1.	Time Depth Sampled	Total Containers:	Correction Factor:	Thermometer ID	Wet Ice: Yes No	Due Date:	Rush:	Routine X	子で Turn Around	Email: travis.casey@	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Midland,TX (432-704-544 NM (575-392-7550) Phoenix,AJ	Houston, TX (281) 240-420
3 31/21 13:21 2	Date/Time	RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Cc TGLP / SPLP 6010. ORCRA Sb As Ba Be Cd Cr Co Cu F utes a valid purchase order from client company to Xenco, its affiliates and subcontriv assume any responsibility for any losses or expenses incurred by the client if such lo a charge of 55 for each sample submitted to Xenco, but not analyzed. These terms w		19	ANN -	5		- x x x	1 K K X	Numb TPH (E BTEX (Chlorid	PA 80'	15) 021)							Email: travis.casey@wsp.com, kalei.jennings@wsp.com, d	Carlsbad, NM	3104 E Greene St.	e: XTO Energy) Kyle Littrell	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 (8	CIIAIII OI CUSIOUY Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
	Relinquished by: (Signature)	A Ca Cr Co Cu Fe Pb Mg Mn Cr Co Cu Pb Mn Mo NI Se Ag tes and subcontractors. It assigns standard te te client if such losses are due to circumstance d. These terms will be enforced unless previou			/													ANALYSIS REQUEST	@wsp.com, dan.moir@w					Lubbock,TX (806)794-1296 770-449-8800) Tampa,FL (813-620-2000)	an Antonio, TX (210) 509-3334
	ure) Received by: (Signature)	vg SiO2										-						ST	Deliverables: EDD ADaPT	□evel III □PST/U			Work Order Comments	www.xenco.com	Work Order No: _
Privised Table 041418 Bay 2018 1	Date/Time	Na Sr TI Sn U V Zn 16317245.177470/7471:Hg								Sample Comments	lab, if received by 4:30pm	at starts the day received by the			HTH. SCON-CLOND		14-1140271001	Work Order Notes	Other:	Ļ,]	Is RC uperfund	ments	Page of	

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Job Number: 890-462-1 SDG Number: TE012920072

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 462 List Number: 1

Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-462-1 SDG Number: TE012920072

List Source: Eurofins Midland

List Creation: 04/01/21 11:44 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 462 List Number: 2 Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 6/4/2021 10:04:31 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-463-1

Laboratory Sample Delivery Group: TE012920072 Client Project/Site: Phantom Bank 25-25-30

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Dan Moir

RAMER

Authorized for release by: 4/9/2021 4:40:50 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

Released to Imaging: 9/8/2021 2:42:16 PM

SDG: TE012920072

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RPD

TEF

	Definitions/Glossary		
Client: WSP US		Job ID: 890-463-1	
Project/Site: Pr	nantom Bank 25-25-30	SDG: TE012920072	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			5
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			8
Abbreviation	These commonly used abbreviations may or may not be present in this report.		9
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		
DL	Detection Limit (DoD/DOE)		12
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		13
DLC	Decision Level Concentration (Radiochemistry)		
EDL	Estimated Detection Limit (Dioxin)		

••••	
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

TEQ Toxicity Equivalent Quotient (Dioxin) TNTC Too Numerous To Count

Toxicity Equivalent Factor (Dioxin)

Job ID: 890-463-1 SDG: TE012920072

Page 49 of 183

Job ID: 890-463-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-463-1

Receipt

The samples were received on 3/31/2021 1:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH02 (890-463-1) and CH02A (890-463-2).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Project/Site: Phantom Bank 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00404 U

<0.00202 U

RL

0.00202

0.00202

0.00202

0.00404

0.00202

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

Job ID: 890-463-1 SDG: TE012920072

Client Sample ID: CH02

Date Collected: 03/30/21 15:20 Date Received: 03/31/21 13:21

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Client: WSP USA Inc.

Lab Sample ID: 890-463-1

Analyzed

04/07/21 06:03

04/07/21 06:03

04/07/21 06:03

04/07/21 06:03

04/07/21 06:03

Matrix: Solid

				5 5				
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/06/21 16:49	04/07/21 06:03	1
Total BTEX	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/06/21 16:49	04/07/21 06:03	1
1,4-Difluorobenzene (Surr)	108		70 - 130			04/06/21 16:49	04/07/21 06:03	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1
Diesel Range Organics (Over	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1
Total TPH	<50.2	U	50.2	mg/Kg		04/03/21 13:41	04/05/21 06:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			04/03/21 13:41	04/05/21 06:04	1
o-Terphenyl	128		70 - 130			04/03/21 13:41	04/05/21 06:04	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8		4.97	mg/Kg			04/08/21 20:45	1

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 06:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/06/21 16:49	04/07/21 06:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/06/21 16:49	04/07/21 06:23	1

Date Received: 03/31/21 13:21

Client Sample Results

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Client Sample ID: CH02A

Date Collected: 03/30/21 15:40 Date Received: 03/31/21 13:21

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
GRO)-C6-C10								
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
otal TPH	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 06:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			04/03/21 13:41	04/05/21 06:26	1
p-Terphenyl	120		70 - 130			04/03/21 13:41	04/05/21 06:26	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.2		4.97	mg/Kg			04/08/21 21:00	

Job ID: 890-463-1 SDG: TE012920072

Lab Sample ID: 890-463-2

Matrix: Solid

Job ID: 890-463-1 SDG: TE012920072

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC) M

atrix:	So	lid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID 890-463-1	Client Sample ID CH02	(70-130) 	(70-130) 108	
890-463-2	CH02A	119	98	
LCS 880-1404/1-A	Lab Control Sample	104	105	
LCSD 880-1404/2-A	Lab Control Sample Dup	105	106	
MB 880-1404/5-A	Method Blank	105	97	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID 890-463-1	Client Sample ID CH02	(70-130) 	(70-130) 128	·	
890-463-2	CH02A	111	120		
LCS 880-1283/2-A	Lab Control Sample	121	116		
LCSD 880-1283/3-A	Lab Control Sample Dup	117	113		
MB 880-1283/1-A	Method Blank	100	104		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

5
6
8
9
13

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A	
Matelia: Callal	

Matrix: Solid Analysis Batch: 1370

Analysis Batch: 1370							Prep Bate	:h: 1404
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/06/21 16:49	04/07/21 00:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130			04/06/21 16:49	04/07/21 00:34	1

Lab Sample ID: LCS 880-1404/1-A Matrix: Solid Analysis Batch: 1370

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	
Toluene	0.100	0.09651		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 _ 130	
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1404/2-A Matrix: Solid

Analysis Batch: 1370									Pre	p Batch	: 1404
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1047		mg/Kg		105	70 - 130	0	35
Toluene			0.100	0.09625		mg/Kg		96	70 - 130	0	35
Ethylbenzene			0.100	0.09959		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1955		mg/Kg		98	70 - 130	1	35
o-Xylene			0.100	0.09893		mg/Kg		99	70 - 130	2	35
	LCSD	LCSD									
Surrogata	% Pasavary	Qualifiar	Limita								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA	
Prep Batch: 1404	

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 890-463-1

SDG: TE012920072

Prep Type: Total/NA

Client Sample ID: Method Blank

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-1283/1	I-A							Client S	Sample ID: Meth	od Blank
Matrix: Solid									Prep Type	
Analysis Batch: 1291										tch: 1283
	Μ	B MB								
Analyte	Resu	It Qualifier	RL		Unit		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50	.0 U	50.0		mg/Kg	g		04/03/21 13:4	1 04/04/21 22:41	1
(GRO)-C6-C10										
Diesel Range Organics (Over	<50	.0 U	50.0		mg/Kg	g		04/03/21 13:47	1 04/04/21 22:41	1
C10-C28)										
Oll Range Organics (Over C28-C36)		.0 U	50.0		mg/K			04/03/21 13:4		1
Total TPH	<50	.0 U	50.0		mg/Kg	g		04/03/21 13:4	1 04/04/21 22:41	1
	м	IB MB								
Surrogate	%Recove	ry Qualifier	Limits					Prepared	Analyzed	Dil Fac
1-Chlorooctane		20	70 - 130					04/03/21 13:4		1
o-Terphenyl	10	04	70 - 130					04/03/21 13:4	1 04/04/21 22:41	1
Lab Sample ID: LCS 880-1283/	/2-A						C	lient Sample	D: Lab Contro	ol Sample
Matrix: Solid									Prep Type	Total/NA
Analysis Batch: 1291									Prep Ba	tch: 1283
-			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits	
Gasoline Range Organics			1000	1072		mg/Kg		107	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	1024		mg/Kg		102	70 - 130	
C10-C28)										
	LCS L	cs								
Surrogate	%Recovery Q	ualifier	Limits							
1-Chlorooctane	121		70 - 130							
o-Terphenyl	116		70 - 130							
Lab Sample ID: LCSD 880-128	3/3-A					Cli	ent	Sample ID:	Lab Control Sa	mple Dup
Matrix: Solid									Prep Type	
Analysis Batch: 1291										tch: 1283
-			Spike	LCSD	LCSD				%Rec.	RPD
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits R	PD Limit
Gasoline Range Organics			1000	1076		mg/Kg		108	70 - 130	0 20
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	976.6		mg/Kg		98	70 - 130	5 20
C10-C28)										
	LCSD L	CSD								
Surrogate	%Recovery Q		Limits							
1-Chlorooctane	117		70 - 130							
o-Terphenyl	113		70 - 130							
Method: 300.0 - Anions, Io	n Chromatog	graphy								
-										
Lab Sample ID: MB 880-1412/1	I-A							Client S	Sample ID: Meth	
Matrix: Solid									Prep Type	e: Soluble
Analysis Batch: 1523										
		BMB					_	_	_	
Analyte	Resu	It Qualifier			Unit		D	Prepared	Analyzed	Dil Fac

Job ID: 890-463-1 SDG: TE012920072

Eurofins Xenco, Carlsbad

04/08/21 19:02

Chloride

5.00

mg/Kg

<5.00 U

1

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-463-1 SDG: TE012920072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1412/2-A Matrix: Solid					Client	Sample	ID: Lab Co Prep	ontrol Sa Type: So	
Analysis Batch: 1523									
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	265.5		mg/Kg		106	90 - 110		
Lab Sample ID: LCSD 880-1412/3-A				Clier	nt San	nple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid							Prep	Type: So	oluble
Analysis Batch: 1523									
	Spike	LCSD	LCSD				%Rec.		RPD
					_				
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

5

8 9

Job ID: 890-463-1 SDG: TE012920072

GC VOA

Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Total/NA	Solid	8021B	1404
890-463-2	CH02A	Total/NA	Solid	8021B	1404
MB 880-1404/5-A	Method Blank	Total/NA	Solid	8021B	1404
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	8021B	1404
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1404
Prep Batch: 1404					
- Prep Batch: 1404					
- Prep Batch: 1404 - Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
- '	Client Sample ID CH02	Prep Type Total/NA	Matrix Solid	Method5035	Prep Batch
Lab Sample ID					Prep Batch
Lab Sample ID 890-463-1	CH02	Total/NA	Solid	5035	Prep Batch
Lab Sample ID 890-463-1 890-463-2	CH02 CH02A	Total/NA Total/NA	Solid Solid	5035 5035	Prep Batch

GC Semi VOA

Prep Batch: 1283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Total/NA	Solid	8015NM Prep	
890-463-2	CH02A	Total/NA	Solid	8015NM Prep	
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Total/NA	Solid	8015B NM	1283
890-463-2	CH02A	Total/NA	Solid	8015B NM	1283
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015B NM	1283
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1283
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1283

HPLC/IC

Leach Batch: 1412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Soluble	Solid	DI Leach	
890-463-2	CH02A	Soluble	Solid	DI Leach	
MB 880-1412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-463-1	CH02	Soluble	Solid	300.0	1412
890-463-2	CH02A	Soluble	Solid	300.0	1412
MB 880-1412/1-A	Method Blank	Soluble	Solid	300.0	1412
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	1412
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1412

Project/Site: Phantom Bank 25-25-30

Job ID: 890-463-1 SDG: TE012920072

Lab Sample ID: 890-463-1

Lab Sample ID: 890-463-2

Date Collected: 03/30/21 15:20 Date Received: 03/31/21 13:21

Client Sample ID: CH02

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 06:03	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 06:04	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 20:45	СН	XM

Client Sample ID: CH02A Date Collected: 03/30/21 15:40 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 06:23	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 06:26	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:00	СН	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Matrix: Solid

Matrix: Solid

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Accreditation/Certification Summary

Client: WSP	USA Inc.
Project/Site:	Phantom Bank 25-25-30

Job ID: 890-463-1 SDG: TE012920072

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

thority	Pr	ogram	Identification Number	Expiration Date
xas	NE	ELAP	T104704400-20-21	06-30-21
The following analytes	are included in this report, bu	it the laboratory is not certil	fied by the governing authority. This list ma	ay include analytes for v
the agency does not of Analysis Method		Matrix	Analyte	
the agency does not of Analysis Method 8015B NM	fer certification. Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

Project/Site: Phantom Bank 25-25-30

5

11 12 13

Job ID: 890-463-1 SDG: TE012920072

ΧM

ASTM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM

Protocol References:

DI Leach

Client: WSP USA Inc.

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Deionized Water Leaching Procedure

2 -- 30 07 0J 10

Sample Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-463-1 SDG: TE012920072

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-463-1	CH02	Solid	03/30/21 15:20	03/31/21 13:21	- 1	
90-463-2	CH02A	Solid	03/30/21 15:40	03/31/21 13:21	- 4	
						2
						8
						9
						1
						1

Project Manager: Company Name: Address: City, State ZIP: Mi	Ho Tax Come The Cryse WSP USA Inc., Permian office 1 3300 North A St. Bldg 1, Unit 222 Midland, TX 79705	Marriss rmian office Idg 1, Unit 2	Houston, TX Midland, T bs, NM (575-392-75 Bi	TX (281) 240-4200 ,TX (432-704-5440 7550) Phoenix,AZ Bill to: (if different) Bill to: (if different) Address: Address: City, State ZIP:	Chailas,T) Dallas,T)) EL Pass (480-355-)) (480-355- (480-355-)) (480-355- (480-355-)) (480-355- (480-355-))) (480-355-))) (480-355-))) (480-3	hain of C las.TX (214) 902-030 - Paso.TX (915)585- -3355-0900) Atlanta.(Kyle Littrell XTO Energy 3104 E Greene St Carlsbad, NM	Cu: 2-0300 \$ 1585-344 anta,GA	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 (813-520-2000) Hobbs, NM (575-392-7560) Bill to: (if different) Kyle Littrell Frogra Company Name: XTO Energy Progra Stat 22 Address: 3104 E Greene St. Stat City, State ZIP: Carlsbad, NM Progra Address	34 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Work Or 10-2000) WMW Xeng Work 1 Program: UST/PST PRP [State of Project: NM Reporting:Level II evel III Program: UST/PST PRP [Work Order No: <u>www.xenco.com</u> <u>Work Order Co</u> Work Order Co St PRP Brownfie	□ ST Ids ment □ □ □ Ids nment	Querfund □
	(432) 704-5178	6 70-		Around	vsp.com	, kalei.je	ennings	Email: travis.casev@wsp.com, kalei.jennings@wsp.com, dan.moir@w	m _	Deliverables. EDD		Wor	Work Order Notes
Project Name: Project Number: P.O. Number:	14/2012629714 1201262072 14/201262022	3444 3072	R	utine X Ish:								11:40	1001270 HIL: 1001
Sampler's Name: Tra	vis Case		Due Date:	Date:						-		AEU: 30	ATT: 30-015-40756
Temperature (°C):	1.010-8		Thermometer ID		iners)						
Received Intact:	Yes No		C00-W			1)	300.0				_		
Cooler Custody Seals:	Yes (No)	N/A Cor	Correction Factor:			A 802	(EPA	890-463 Cha	890-463 Chain of Custody	4		TAT starts lab, if	TAT starts the day received by the lab, if received by 4:30pm
Sample Identification		C Date Sampl	Time Sampled	Depth	Number TPH (EP	BTEX (E	Chloride					Sam	Sample Comments
640	2	2 3/3-2	1 1520	11	V V	X	24						
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Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	0 200.8 / 6020: and Metal(s) to be		8RCRA 13PPM	CRA 13PPM Texas 11 AI		As Ba As Ba	Be B Be Ca	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	Pb Mg Mn o Ni Se Ag	Mo Ni K	Se Ag SiO2	2 Na Sr TI S 1631/245.1	Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg
Notice: Signature of this doci of service. Xenco will be liab of Xenco. A minimum charge	ument and relinquish le only for the cost of of \$75.00 will be app	ment of samples cons f samples and shall no siled to each project a	stitutes a valid purch ot assume any respo nd a charge of \$6 for	ase order from cliu onsibility for any lo r each sample sub	ent compa sses or ex mitted to X	ny to Xenc penses in enco, but	o, its affili curred by not analy;	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 negotilated.	signs standard t e to circumstance ed unless previou	erms and conditi es beyond the co usly negotiated.	ons ontrol		
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Received by OCD: 6/4/2021 10:04:31 AM

	Custody Seals Intact ∆ Yes ∆ No	Relinquished by	Relinguished by	Reinquissed by Use Course 331-21	Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	It can be avoid according according to contrast sources the ownership of method analyte & accorditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accorditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	Note: Cines laborator, annadiation an a bind to above I under V 1							CH02A (890-463-2)	CH02 (890-463-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name Phantom Bank 25-25-30	Email	Phone 432-704-5440(Tel)	State, Zip TX, 79701	City City Midland	Address. 1911 W Florida Ave	Company Eurofins Xenco	Client Contact: Shipping/Receiving	Client Information (Sub Contract Lab)	Eurofins Xenco, Carlsbad 1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199
		Date/Time:	Date/Time:	Date/ Itme:	Date	Primary Deliverable Rank		c piaces the ownership of m x being analyzed the sample trurn the signed Chain of Cu								3/30/21 1	3/30/21 1	X	Sample Date T	SSOW#	Project #: 89000004	WO#	PO #:		TAT Requested (days)	Due Date Requested		Phone:	Sampler.	Ch
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14

Job Number: 890-463-1 SDG Number: TE012920072

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 463 List Number: 1

Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-463-1 SDG Number: TE012920072

List Source: Eurofins Midland

List Creation: 04/01/21 11:43 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 463 List Number: 2 Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-464-1

Laboratory Sample Delivery Group: TE012920072 Client Project/Site: Phantom Bank 25-25-30

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Dan Moir

RAMER

Authorized for release by: 4/9/2021 4:42:48 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Have a Question?

www.eurofinsus.com/Env Released to Imaging: 9/8/2021 2:42:16 PM

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DLC

EDL

LOD

LOQ

MCL

MDA

MDC

MDL

ML

MPN

MQL

NC

ND NEG

POS

PQL

QC

RER

RPD TEF

TEQ

TNTC

RL

PRES

DL, RA, RE, IN

	Definitions/Glossary	
Client: WSP US		
Project/Site: Pr	antom Bank 25-25-30 SDG: TE012920072	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		ð
Abbreviation	These commonly used abbreviations may or may not be present in this report.	9
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	12

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Limit of Quantitation (DoD/DOE)

Job ID: 890-464-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-464-1

Comments

No additional comments.

Receipt

The samples were received on 3/31/2021 1:21 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8° C.

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-1366 and analytical batch 880-1370 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: instrument injection error on CCV

(CCV 880-1370/2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Job ID: 890-464-1 SDG: TE012920072

Project/Site: Phantom Bank 25-25-30

Client Sample Results

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Job ID: 890-464-1 SDG: TE012920072

Lab Sample ID: 890-464-1

Matrix: Solid

Client Sample ID: CH03 Date Collected: 03/30/21 11:50 Date Received: 03/31/21 13:21

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Total BTEX	<0.00202	U	0.00202	mg/Kg		04/06/21 16:49	04/07/21 06:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			04/06/21 16:49	04/07/21 06:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130			04/06/21 16:49	04/07/21 06:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 06:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			04/03/21 13:41	04/05/21 06:47	1
o-Terphenyl	118		70 - 130			04/03/21 13:41	04/05/21 06:47	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.97	mg/Kg			04/08/21 21:05	1

Client Sample ID: CH03A

Date Collected: 03/30/21 12:10

Lab Sample ID: 890-464-2

Matrix: Solid

Date Received: 03/31/21 13:21

Method: 8021B - Volatile Orga	inic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Xylenes, Total	< 0.00402	U	0.00402	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Total BTEX	<0.00201	U	0.00201	mg/Kg		04/06/21 16:49	04/07/21 07:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			04/06/21 16:49	04/07/21 07:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130			04/06/21 16:49	04/07/21 07:04	1
– Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	1

(GRO)-C6-C10

Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1 SDG: TE012920072

Matrix: Solid

5

Lab Sample ID: 890-464-2

Client Sample ID: CH03A Date Collected: 03/30/21 12:10

Date Received: 03/31/21 13:21

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 13:41	04/05/21 07:09	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	108		70 - 130			04/03/21 13:41	04/05/21 07:09	
o-Terphenyl	118		70 - 130			04/03/21 13:41	04/05/21 07:09	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	9.27		4.95	mg/Kg			04/08/21 21:10	

Job ID: 890-464-1 SDG: TE012920072

Method: 8021B - Volatile Organic Compounds (GC)

Matrix:	Sali	d
matrix.	001	u

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-464-1	CH03	113	94	
890-464-2	CH03A	108	95	
LCS 880-1404/1-A	Lab Control Sample	104	105	
LCSD 880-1404/2-A	Lab Control Sample Dup	105	106	
MB 880-1404/5-A	Method Blank	105	97	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limi
Sample ID		1CO1 (70-130)	OTPH1 (70-130)	
пріе і 1-1	Client Sample ID CH03	110	118	
64-2	CH03A	108	118	
D-1283/2-A	Lab Control Sample	121	116	
880-1283/3-A	Lab Control Sample Dup	117	113	
80-1283/1-A	Method Blank	100	104	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

6

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A	
Matelia: Callal	

Matrix: Solid Analysis Batch: 1370

Analysis Batch: 1370							Prep Bato	:h: 1404
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/06/21 16:49	04/07/21 00:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130			04/06/21 16:49	04/07/21 00:34	1

Lab Sample ID: LCS 880-1404/1-A Matrix: Solid Analysis Batch: 1370

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1045		mg/Kg		105	70 - 130
Toluene	0.100	0.09651		mg/Kg		97	70 ₋ 130
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 ₋ 130
o-Xylene	0.100	0.1008		mg/Kg		101	70 ₋ 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1404/2-A Matrix: Solid

						Pre	p Batch	: 1404
Spike	LCSD	LCSD				%Rec.		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1047		mg/Kg		105	70 - 130	0	35
0.100	0.09625		mg/Kg		96	70 - 130	0	35
0.100	0.09959		mg/Kg		100	70 - 130	0	35
0.200	0.1955		mg/Kg		98	70 - 130	1	35
0.100	0.09893		mg/Kg		99	70 - 130	2	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1047 0.100 0.09625 0.100 0.09959 0.200 0.1955 0.100 0.09893	Added Result Qualifier 0.100 0.1047 - 0.100 0.09625 - 0.100 0.09959 - 0.200 0.1955 - 0.100 0.09893 -	Added Result Qualifier Unit 0.100 0.1047 mg/Kg 0.100 0.09625 mg/Kg 0.100 0.09959 mg/Kg 0.200 0.1955 mg/Kg 0.100 0.09893 mg/Kg	Added Result Qualifier Unit D 0.100 0.1047 mg/Kg mg/Kg 0.100 0.09625 mg/Kg 0.100 0.09959 mg/Kg 0.200 0.1955 mg/Kg 0.100 0.09893 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1047 mg/Kg 105 105 0.100 0.09625 mg/Kg 96 0.100 0.09959 mg/Kg 100 0.200 0.1955 mg/Kg 98 0.100 0.09893 mg/Kg 99	Spike LCSD LCSD %Rec. Added Result Qualifier Unit D %Rec. Limits 0.100 0.1047 mg/Kg 105 70 - 130 0.100 0.09625 mg/Kg 96 70 - 130 0.100 0.09959 mg/Kg 100 70 - 130 0.200 0.1955 mg/Kg 98 70 - 130 0.100 0.09893 mg/Kg 99 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1047 mg/Kg 105 70 - 130 0 0.100 0.09625 mg/Kg 96 70 - 130 0 0.100 0.09959 mg/Kg 100 70 - 130 0 0.200 0.1955 mg/Kg 98 70 - 130 1

	LUGD	2030	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA	
Prep Batch: 1404	

5

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Job ID: 890-464-1 SDG: TE012920072

Prep Type: Total/NA

Client Sample ID: Method Blank
Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-1283/1	- A										Client Sa	mple ID: M	ethod	Blank
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 1291													-	n: 1283
		ΜВ	МВ											
Analyte	Res	sult	Qualifier	R	۲.		Unit		D	P	repared	Analyze	ł	Dil Fac
Gasoline Range Organics	<5	50.0	U	50.	.0		mg/Kg		_	04/0	3/21 13:41	04/04/21 22	:41	1
(GRO)-C6-C10														
Diesel Range Organics (Over	<5	50.0	U	50.	.0		mg/Kg	I		04/0	3/21 13:41	04/04/21 22	:41	1
C10-C28)	_													
Oll Range Organics (Over C28-C36)		50.0		50.			mg/Kg				3/21 13:41	04/04/21 22		1
Total TPH	<5	50.0	U	50.	.0		mg/Kg	l		04/0	3/21 13:41	04/04/21 22	.:41	1
		ΜВ	МВ											
Surrogate	%Recov	verv	Qualifier	Limits						P	repared	Analyze	d	Dil Fac
1-Chlorooctane		100		70 - 130	_						3/21 13:41	04/04/21 22		1
o-Terphenyl		104		70 - 130							3/21 13:41	04/04/21 22		1
Lab Sample ID: LCS 880-1283/	2-A								С	lient	Sample	ID: Lab Cor	ntrol S	ample
Matrix: Solid											-	Prep Ty		
Analysis Batch: 1291													-	n: 1283
				Spike	LCS	LCS						%Rec.		
Analyte				Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	1072			mg/Kg			107	70 - 130		
(GRO)-C6-C10														
Diesel Range Organics (Over				1000	1024			mg/Kg			102	70 - 130		
C10-C28)														
	LCS	LCS												
Surrogate	%Recovery		ifier	Limits										
1-Chlorooctane	121			70 - 130										
o-Terphenyl	116			70 - 130										
Lab Sample ID: LCSD 880-128	3/3-A							Cli	ient	Sam	ple ID: L	ab Control	Samp	le Dup
Matrix: Solid												Prep Ty		
Analysis Batch: 1291													-	n: 1283
				Spike	LCSD	LCS	D					• %Rec.		RPD
Analyte				Added	Result	Qual	lifier	Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000	1076			mg/Kg			108	70 - 130	0	20
(GRO)-C6-C10														
Diesel Range Organics (Over				1000	976.6			mg/Kg			98	70 - 130	5	20
C10-C28)														
	LCSD	LCSI	D											
Surrogate	%Recovery			Limits										
1-Chlorooctane	117		-	70 - 130										
o-Terphenyl	113			70 - 130										
Method: 300.0 - Anions, Io	n Chromato	ogra	aphy											
_ 	•										Client Cr			Diank
Lab Sample ID: MB 880-1412/1	-A										Chefit 38	Imple ID: M		
Matrix: Solid												Prep T	/pe: S	elquio
Analysis Batch: 1523														
A		MB		-			11		-	-		. .		
Analyte	Res	sult	Qualifier	R	<u>L</u>		Unit		D	PI	repared	Analyze		Dil Fac

Job ID: 890-464-1 SDG: TE012920072

Eurofins Xenco, Carlsbad

04/08/21 19:02

Chloride

5.00

mg/Kg

<5.00 U

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Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-464-1 SDG: TE012920072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1412/2-A Matrix: Solid					Client	t Sample	e ID: Lab Co Prep	ontrol Sa Type: S	
Analysis Batch: 1523	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	265.5		mg/Kg		106	90 - 110		
- Lab Sample ID: LCSD 880-1412/3-A				Clier	nt San	nple ID:	Lab Contro	l Sampl	e Dup
Matrix: Solid								Type: S	
Analysis Batch: 1523									
-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

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Job ID: 890-464-1 SDG: TE012920072

GC VOA

Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Total/NA	Solid	8021B	1404
890-464-2	CH03A	Total/NA	Solid	8021B	1404
MB 880-1404/5-A	Method Blank	Total/NA	Solid	8021B	1404
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	8021B	1404
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1404
Prep Batch: 1404					
rep Batch: 1404 Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID	Client Sample ID CH03	Prep Type Total/NA	Matrix Solid	Method	Prep Batch
	· · · · · · · · · · · · · · · · · · ·				Prep Batch
Lab Sample ID 890-464-1 890-464-2	CH03	Total/NA	Solid	5035	Prep Batch
Lab Sample ID 890-464-1	CH03 CH03A	Total/NA Total/NA	Solid	5035 5035	Prep Batch

GC Semi VOA

Prep Batch: 1283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Total/NA	Solid	8015NM Prep	
890-464-2	CH03A	Total/NA	Solid	8015NM Prep	
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Total/NA	Solid	8015B NM	1283
890-464-2	CH03A	Total/NA	Solid	8015B NM	1283
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015B NM	1283
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1283
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1283

HPLC/IC

Leach Batch: 1412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Soluble	Solid	DI Leach	
890-464-2	CH03A	Soluble	Solid	DI Leach	
MB 880-1412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-464-1	CH03	Soluble	Solid	300.0	1412
890-464-2	CH03A	Soluble	Solid	300.0	1412
MB 880-1412/1-A	Method Blank	Soluble	Solid	300.0	1412
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	1412
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1412

Project/Site: Phantom Bank 25-25-30

SDG: TE012920072

Date Collected: 03/30/21 11:50 Date Received: 03/31/21 13:21

Client Sample ID: CH03

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 06:44	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 06:47	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:05	СН	XM

Client Sample ID: CH03A Date Collected: 03/30/21 12:10 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 07:04	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 07:09	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:10	СН	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Job ID: 890-464-1

Lab Sample ID: 890-464-1 Matrix: Solid

5

Lab Sample ID: 890-464-2 Matrix: Solid

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Accreditation/Certification Summary

Client: WSP	USA Inc.
Project/Site:	Phantom Bank 25-25-30

Job ID: 890-464-1 SDG: TE012920072

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority		ogram	Identification Number	Expiration Date
as	NE	ELAP	T104704400-20-21	06-30-21
• ,		it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
6 ,		Matrix Solid	Analyte Total TPH	

Project/Site: Phantom Bank 25-25-30

Job ID: 890-464-1 SDG: TE012920072

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

Client: WSP USA Inc.

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-464-1 SDG: TE012920072

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-464-1	CH03	Solid	03/30/21 11:50	03/31/21 13:21	
890-464-2	CH03A	Solid	03/30/21 12:10	03/31/21 13:21	

Relinquished by; (Signature) Re 1 J. J. J. C.	IOTal ZUU, / b010 ZUU, 8 b020: OKCKA ISPEN Lexas IF ALSO As be be body a be body a body of the body and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.			3A 1	CHO3 53	Sample Identification Matrix g	Seals: Yes No	SAMPLE RECEIPT Temp Blank:	TEOI2 NRM 701	Project Name: Phanton Bunks 25-	Phone: (432) 704-5178	City, State ZIP: Midland, TX 79705		WSP USA Inc.,	Project Manager: Taron Marista	XENCO
Received by: (Signature) 34 Urddin (7	TCLP / SPLP 6010: BRC TCLP / SPLP 6010: BRC ples constitutes a valid purchase order from cl nd shall not assume any responsibility for any l project and a charge of \$5 for each sample su	13DDM		-+	-	Date Time Depth	Correction Factor: Total Containers:	Thermometer ID	Routine X	2ビーンシュー J C Turn Around	Email: travis.casey	City, State ZIP:			Serve Bill to: (if different)	Houston,TX (281) 240-4 Midland,TX (432-704-5 Hobbs,NM (575-392-7550) Phoenix
Date/Time Reli 3/31/21 13:21 2 4 6	BRCRA Sh As Ba Be Cd Cr Co BRCRA Sh As Ba Be Cd Cr Co from client company to Xenco, its affiliates and su for any losses or expenses incurred by the client if mple submitted to Xenco, but not analyzed. These	11 Al Sh As Ba Ba Ba Ba Cd Ca			<u>с</u> т <u>с</u> в	PH (E	er of Con PA 8015) EPA 8021) e (EPA 30	,			Email: travis.casey@wsp.com, kalei.jennings@wsp.com, dan.moir@w	IP: Carlsbad, NM			ent) Kyle Littrell	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) Tam <u>pa,FL (81</u> 3-6 <u>2</u> 0-2000)
Relinquished by: (Signature)	CU Pb Mn Mc Ni Se Ag TI U subcontractors. It assigns standard terms an it f such losses are due to circumstances beyon tif such losses are due to circumstances beyon se terms will be enforced unless previously reg	Cr Co Cu Fe Pb Ma Mn Mo						890-464 Chain of Custody		ANALYSIS REQUEST	.com, dan.moir@w Deliverables: EDD	Reporting:Level II	State of	Program: UST/PST		dy onio, TX (210) 509-3334 ock, TX (806)794-1296 9-8800) Tampa, FL (813-6 <u>2</u> 0-2000)
Received by: (Signature)		o Ni K Se Ag SiO2 Na Sr TI Sn			Pisciete	Sam	TAT starts lab, if	AR#: 3		Wor	ADaPT LJ			JST/PST PRP Brownfields CC	Work Order Comments	Work Order No:
Date/ I ime Revised Date 051418 Rev. 2018 1		n U V Zn			7	Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm	伯井: 30-015-40756	CCH: 1140221001	Work Order Notes	Other:			C uperfund		l of l

Received by OCD: 6/4/2021 10:04:31 AM

Released to Imaging: 9/8/2021 2:42:16 PM

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4/9/2021



Received by OCD: 6/4/2021 10:04:31 AM

	Custody Seals Intact Custody Seal No ∆ Yes ∆ No	Relinquished by		Reinquissed by UR Cuth 3:31 21	Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Invure: Junce lacoratory accreditation are subject to change, Euromis Xenoo LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories, maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Euromis Xenco LLC laboratory or other instruc LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.								CH03A (890-464-2)	CH03 (890-464-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: Phantom Bank 25-25-30	Email	Phone. 432-704-5440(Tel)	Midland State, Zip TX, 79701	1211 W Florida Ave City	Eurofins Xenco Address	Shipping/Receiving Company	Client Information (Sub Contract Lab)	Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199
		Date/Time:	Date/Time:	Date/Time:		Primary Deliverable Rank		C places the ownershi x being analyzed the aturn the signed Chain							5/50/21	00000	3/30/21	V	Sample Date	SSOW#:	Project #: 89000004	WO #:	PO #		4/6/2021 TAT Requested (days)	Due Date Reques		Phone:	Samoler
					Date			p of method, an samples must t of Custody att							Mountain	Mountain 12 10	11 50	X	Sample Time						lays) [,]	fed			Chain of Custody Record
						2		halyte & accred be shipped bac esting to said c										SO	Sample Type (C=comp, G=grab)										of Cus
		Company	Company	Company				itation compliant k to the Eurofin omplicance to I							Solid		Solid	Preservation Code:	Matrix (W=water S=solid O=waste/oll, BT=Tissue, A=Air)								jessi	Kram	tody Re
					Time	dS	Sa	nce upo s Xenco Eurofins					_			-		1000	Field Filtered S Perform MS/M	contract cont			<u>)</u>		2	NELAP - Louisiana NEL	jessica kramer@eurofinset.com	Kramer, Jessica	eco
ľ	Cool	Rece	Rece	Rep		Special Instructions/Q	Sample Disposal (A	h out s b LLC I t Xenco			-			+	×	; ;	×		8015MOD_NM/8	(50x 270)358(65)	W/W/W/W/W/	00000000000	TPH			NP - L	a kramer@eurofinset.com	ssica	ord
	Cooler Temperature(s)	Received by	Received by	Received	$\left \right $	Instr	<mark>le Disposal (A f</mark> Return To Client	aborat 0 LLC							×	: ;	×		300_ORGFM_28	D/DI_L	EACH	Chlori	de		1	ouisi	euro	-	
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				slam			fee may be assessed if samples are retained longer than 1 t Disposal By Lab Archive For	If the hould									1000		oria			ce DI Water		ətate Acid)4	A HCL M		Ĭ	-	le verofins
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Ver 1		Company	Company	Company		ľ	month) Mont	ories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco										opecial Instructions/More			≥ × oth	< U - A0	- S R - H2 R	N None O AsNaO2 P Na2O4S Q - Na2SO3	He N				Environn America
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12 13 14

Job Number: 890-464-1 SDG Number: TE012920072

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 464 List Number: 1

Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-464-1 SDG Number: TE012920072

List Source: Eurofins Midland

List Creation: 04/01/21 11:43 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 464 List Number: 2 Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 6/4/2021 10:04:31 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-465-1

Laboratory Sample Delivery Group: TE012920072 Client Project/Site: Phantom Bank 25-25-30

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Dan Moir

RAMER

Authorized for release by: 4/9/2021 4:44:27 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

Released to Imaging: 9/8/2021 2:42:16 PM

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Sample Summary	16
Chain of Custody	17
	19

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1 SDG: TE012920072

· , · · · · · ·		
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	8
Glossary		0
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	

Toxicity Equivalent Quotient (Dioxin) TNTC Too Numerous To Count

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

ND

NEG

POS

PQL

PRES QC

RER

RL RPD

TEF

TEQ

Job ID: 890-465-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-465-1

Comments

No additional comments.

Receipt

The samples were received on 3/31/2021 1:21 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-1366 and analytical batch 880-1370 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: instrument injection error on CCV

(CCV 880-1370/2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 890-465-1 SDG: TE012920072 Project/Site: Phantom Bank 25-25-30

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

0.00200

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

04/06/21 16:49

Prepared

04/06/21 16:49

04/06/21 16:49

Job ID: 890-465-1 SDG: TE012920072

Client Sample ID: CH04

Date Collected: 03/30/21 13:30 Date Received: 03/31/21 13:21

Sample Depth: - 1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-46

Analyzed

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

04/07/21 07:24

Analyzed

04/07/21 07:24

04/07/21 07:24

Lab Sample ID: 890-465-2

Matrix: Solid

Matrix: Solid

465-1 Solid	3
	4
	5
Dil Fac	
1	6
1	
1	7
1	
1	8
1	
1	9
Dil Fac 1	10
1	11
Dil Fac 1	12
1	13

-			
Method: 8015B	NM - Diesel	Range Organic	s (DRO) (GC)

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

<0.00200 U

%Recovery Qualifier

111 102

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1	
Total TPH	<50.1	U	50.1	mg/Kg		04/03/21 13:41	04/05/21 07:29	1	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/03/21 13:41	04/05/21 07:29	1
o-Terphenyl	112		70 - 130	04/03/21 13:41	04/05/21 07:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	573		4.96	mg/Kg			04/08/21 21:15	1

Client Sample ID: CH04A Date Collected: 03/30/21 13:50

Date Received: 03/31/21 13:21

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 07:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/06/21 16:49	04/07/21 07:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/06/21 16:49	04/07/21 07:45	1

Client Sample Results

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Client Sample ID: CH04A

Date Collected: 03/30/21 13:50 Date Received: 03/31/21 13:21

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *+	49.9	mg/Kg		04/05/21 09:24	04/05/21 18:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/05/21 09:24	04/05/21 18:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/05/21 09:24	04/05/21 18:57	1
Total TPH	<49.9	U	49.9	mg/Kg		04/05/21 09:24	04/05/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			04/05/21 09:24	04/05/21 18:57	1
o-Terphenyl	123		70 - 130			04/05/21 09:24	04/05/21 18:57	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
							04/08/21 21:20	

Matrix: Solid

5

Job ID: 890-465-1 SDG: TE012920072

Lab Sample ID: 890-465-2

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Job ID: 890-465-1 SDG: TE012920072

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix:	Colid
wau i.	Soliu

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-465-1	CH04	111	102		
890-465-2	CH04A	116	98		6
LCS 880-1404/1-A	Lab Control Sample	104	105		
LCSD 880-1404/2-A	Lab Control Sample Dup	105	106		
MB 880-1404/5-A	Method Blank	105	97		
Surrogate Legend					8

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-465-1	CH04	108	112	
890-465-2	CH04A	113	123	
LCS 880-1283/2-A	Lab Control Sample	121	116	
LCS 880-1303/2-A	Lab Control Sample	114	111	
LCSD 880-1283/3-A	Lab Control Sample Dup	117	113	
LCSD 880-1303/3-A	Lab Control Sample Dup	114	106	
MB 880-1283/1-A	Method Blank	100	104	
MB 880-1303/1-A	Method Blank	112	124	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1404/5-A	
Marketer Oallal	

Matrix: Solid Analysis Batch: 1370

Analysis Batch: 1370							Prep Bato	:h: 1404
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 16:49	04/07/21 00:34	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/06/21 16:49	04/07/21 00:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130			04/06/21 16:49	04/07/21 00:34	1

Lab Sample ID: LCS 880-1404/1-A Matrix: Solid

Analysis Batch: 1370

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	
Toluene	0.100	0.09651		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1404/2-A Matrix: Solid

Analysis Batch: 1370									Pre	p Batch	: 1404
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1047		mg/Kg		105	70 - 130	0	35
Toluene			0.100	0.09625		mg/Kg		96	70 - 130	0	35
Ethylbenzene			0.100	0.09959		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1955		mg/Kg		98	70 - 130	1	35
o-Xylene			0.100	0.09893		mg/Kg		99	70 - 130	2	35
	LCSD	LCSD									
Surrogato	% Pacavary	Qualifier	Limite								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 1404

70 - 130		
70 - 130		
70 - 130		
70 - 130		
70 120		

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

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7

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-1283/ Matrix: Solid	1-A											Client Sa	mple ID: Me Prep Typ		
Analysis Batch: 1291													Prep I	Batch	n: 1283
			MB												
Analyte			Qualifier		RL			nit		<u>D</u>		repared	Analyzed		Dil Fac
Gasoline Range Organics	<:	50.0	U		50.0		m	g/Kg			04/0	3/21 13:41	04/04/21 22:	41	1
(GRO)-C6-C10 Diesel Range Organics (Over	<	50.0	ш		50.0		m	g/Kg			04/0	3/21 13:41	04/04/21 22:	41	1
C10-C28)		00.0	0		00.0			9/119			0 1/0	0,2110.11	0 //0 //21 22.		
Oll Range Organics (Over C28-C36)	<:	50.0	U		50.0		m	g/Kg			04/0	3/21 13:41	04/04/21 22:	41	1
Total TPH	<	50.0	U		50.0		m	g/Kg			04/0	3/21 13:41	04/04/21 22:	41	1
		ΜВ	МВ												
Surrogate	%Reco			Lin	ite							repared	Analyzed		Dil Fac
1-Chlorooctane		100	Quanner		130							3/21 13:41	04/04/21 22:		1
o-Terphenyl		104			.130							3/21 13:41	04/04/21 22:		1
Lab Sample ID: LCS 880-1283	/ 2-A									C	lient	Sample	ID: Lab Con	trol S	ample
Matrix: Solid													Prep Typ	e: To	otal/NA
Analysis Batch: 1291													Prep I	Batch	n: 1283
				Spike		LCS	LCS						%Rec.		
Analyte				Added			Qualifie		nit		_ <u>D</u>	%Rec	Limits		
Gasoline Range Organics				1000		1072		m	ıg/Kg			107	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over				1000		1024		m	ng/Kg			102	70 - 130		
C10-C28)				1000		1024			ig/itg			102	10 - 100		
,															
0	LCS			1											
Surrogate 1-Chlorooctane	%Recovery 121	Qua		Limits 70 - 130	-										
o-Terphenyl	121			70 - 130											
	110			10 - 100											
Lab Sample ID: LCSD 880-128	33/3-A								CI	ient	Sam	ple ID: L	ab Control S	amp	le Dup
Matrix: Solid													Prep Typ	e: To	otal/NA
Analysis Batch: 1291													Prep I	Batch	n: 1283
				Spike		LCSD	LCSD						%Rec.		RPD
Analyte				Added		Result	Qualifie	er U	nit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000		1076		m	ıg/Kg			108	70 - 130	0	20
(GRO)-C6-C10				4000		070.0			-			00	70 100	_	20
Diesel Range Organics (Over C10-C28)				1000		976.6		rr	ıg/Kg			98	70 - 130	5	20
010 020)															
	LCSD														
Surrogate	%Recovery	Qua	lifier	Limits	-										
1-Chlorooctane	117 113			70 ₋ 130 70 ₋ 130											
o-Terphenyl	113			10 - 130											
Lab Sample ID: MB 880-1303/	1-A											Client Sa	mple ID: Me	thod	Blank
Matrix: Solid													Prep Typ		
Analysis Batch: 1310															n: 1303
-		ΜВ	МВ												
Analyte	Re	sult	Qualifier		RL		U	nit		D	Р	repared	Analyzed		Dil Fac
Gasoline Range Organics		50.0	U		50.0		m	g/Kg		_	04/0	5/21 09:24	04/05/21 15:	03	1
(GRO)-C6-C10					50.0			. 116			o		04/05/04 /=	~~	
Diesel Range Organics (Over C10-C28)	<	50.0	U		50.0		m	g/Kg			04/0	5/21 09:24	04/05/21 15:	03	1
OII Range Organics (Over C28-C36)	<	50.0	U		50.0		m	g/Kg			04/0	5/21 09:24	04/05/21 15:	03	1
Total TPH		50.0			50.0			g/Kg				5/21 09:24	04/05/21 15:		1
			-					5 5						-	

Job ID: 890-465-1 SDG: TE012920072

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4/9/2021

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MB MB

Surrogate	%Reco	very Quali	ifier Lin	nits				F	Prepared	Analyze	ed	Dil Fa
1-Chlorooctane		112	70	- 130				04/	05/21 09:24	4 04/05/21 1	5:03	
o-Terphenyl		124	70	- 130				04/0	05/21 09:24	4 04/05/21 1	5:03	
Lab Sample ID: LCS 880-1303/2-A								Clien	t Sample	e ID: Lab Co	ntrol S	amp
Matrix: Solid								•	e oumpre	Prep Ty		
Analysis Batch: 1310											Batch	
Analysis Balch. 1310			Calles		LCS	1.00				%Rec.	Datch	. 130
			Spike					_				
Analyte			Added			Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000		1426	*+	mg/Kg		143	70 - 130		
(GRO)-C6-C10			4000		4400				100	70 400		
Diesel Range Organics (Over			1000		1198		mg/Kg		120	70 - 130		
C10-C28)												
	LCS	LCS										
Surrogate 9	%Recovery	Qualifier	Limits									
1-Chlorooctane	114		70 - 130	_								
o-Terphenyl	111		70 - 130									
Lab Sample ID: LCSD 880-1303/3-	A						Cli	ent San	nple ID:	Lab Control	Samp	le Du
Lab Sample ID: LCSD 880-1303/3- Matrix: Solid	A						Cli	ent Sar	nple ID:	Lab Control Prep Ty		
Matrix: Solid	A						Cli	ent Sar	nple ID:	Prep Ty	pe: To	tal/N
	A		Spike		LCSD	LCSD	Cli	ent Sar	nple ID:	Prep Ty		tal/N
Matrix: Solid Analysis Batch: 1310	A		Spike Added			LCSD Qualifier	Cli Unit	ent Sar	-	Prep Ty Prep	pe: To	tal/N : 130 RP
Matrix: Solid Analysis Batch: 1310 Analyte	.A		Added		Result	Qualifier	Unit		%Rec	Prep Ty Prep %Rec. Limits	pe: To Batch	tal/N : 130 RP Lim
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics	A		-			Qualifier			-	Prep Ty Prep %Rec.	pe: To Batch RPD	tal/N : 130 RP Lim
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10	A		Added		Result	Qualifier	Unit		%Rec	Prep Ty Prep %Rec. Limits	pe: To Batch RPD	tal/N : 130 RP Lim
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	A		Added 1000		Result 1308	Qualifier	Unit mg/Kg		%Rec 131	Prep Ty Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 9	tal/N : 130 RP Lim
Matrix: Solid			Added 1000		Result 1308	Qualifier	Unit mg/Kg		%Rec 131	Prep Ty Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 9	tal/N : 130 RP Lim 2
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD		Added 1000 1000		Result 1308	Qualifier	Unit mg/Kg		%Rec 131	Prep Ty Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 9	tal/N : 130 RP Lim
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery		Added 1000 1000 <i>Limits</i>		Result 1308	Qualifier	Unit mg/Kg		%Rec 131	Prep Ty Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 9	tal/N : 130 RP Lim 2
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD %Recovery 114		Added 1000 1000 <u>Limits</u> 70 - 130		Result 1308	Qualifier	Unit mg/Kg		%Rec 131	Prep Ty Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 9	tal/N : 130 RP Lim 2
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery		Added 1000 1000 <i>Limits</i>		Result 1308	Qualifier	Unit mg/Kg		%Rec 131	Prep Ty Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 9	tal/N/ : 130 RP Lim 2
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	LCSD %Recovery 114 106	Qualifier	Added 1000		Result 1308	Qualifier	Unit mg/Kg		%Rec 131	Prep Ty Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 9	tal/N : 130 RP Lim
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	LCSD %Recovery 114 106	Qualifier	Added 1000		Result 1308	Qualifier	Unit mg/Kg		%Rec 131	Prep Ty Prep %Rec. Limits 70 - 130	ype: To b Batch RPD 9	tal/N : 130 RP Lim
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate ? 1-Chlorooctane o-Terphenyl Iethod: 300.0 - Anions, Ion C	LCSD %Recovery 114 106	Qualifier	Added 1000		Result 1308	Qualifier	Unit mg/Kg		%Rec 131 115	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	ype: To b Batch RPD 9 4	2 2 2 2 2 2 2 2
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 9 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion C Lab Sample ID: MB 880-1412/1-A	LCSD %Recovery 114 106	Qualifier	Added 1000		Result 1308	Qualifier	Unit mg/Kg		%Rec 131 115	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	Vpe: To b Batch RPD 9 4	tal/N. : 130 RP Lim 2 2 2 Blan
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 9 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion C Lab Sample ID: MB 880-1412/1-A Matrix: Solid	LCSD %Recovery 114 106	Qualifier	Added 1000	_	Result 1308	Qualifier	Unit mg/Kg		%Rec 131 115	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	ype: To b Batch RPD 9 4	tal/N: 130 RP Lim 2 2 Blan
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 9 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion C Lab Sample ID: MB 880-1412/1-A	LCSD %Recovery 114 106	Qualifier	Added 1000	_	Result 1308	Qualifier	Unit mg/Kg		%Rec 131 115	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	Vpe: To b Batch RPD 9 4	tal/N: 130 RP Lim 2 2 Blan
Matrix: Solid Analysis Batch: 1310 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 9 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion C Lab Sample ID: MB 880-1412/1-A Matrix: Solid	LCSD %Recovery 114 106 Chromat	Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130		Result 1308	Qualifier	Unit mg/Kg	D	%Rec 131 115	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	ype: To Batch RPD 9 4 4	tal/NJ : 130 RPI Lim 2 2 Blan

Client Sample ID: Lab Control Sample Prep Type: Soluble

Analysis Batch: 1523								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	265.5		mg/Kg		106	90 _ 110	

Lab Sample ID: LCSD 880-1412/3-A Matrix: Solid Analysis Batch: 1523				Clier	nt Sam	ple ID:	Lab Contro Prep	ol Sampl Type: So	
Analysis Baten. 1025	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	265.3		mg/Kg		106	90 - 110	0	20

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Job ID: 890-465-1

SDG: TE012920072

Lab Sample ID: LCS 880-1412/2-A

Matrix: Solid

QC Association Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

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Job ID: 890-465-1 SDG: TE012920072

GC VOA

Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Total/NA	Solid	8021B	1404
890-465-2	CH04A	Total/NA	Solid	8021B	1404
MB 880-1404/5-A	Method Blank	Total/NA	Solid	8021B	1404
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	8021B	1404
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1404
Prep Batch: 1404					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Total/NA	Solid	5035	
890-465-2	CH04A	Total/NA	Solid	5035	
MB 880-1404/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1404/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1404/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
GC Semi VOA					
Prep Batch: 1283					

Lab San	ple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465	-1	CH04	Total/NA	Solid	8015NM Prep	
MB 880-	1283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880	-1283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 88	30-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-1	CH04	Total/NA	Solid	8015B NM	1283
MB 880-1283/1-A	Method Blank	Total/NA	Solid	8015B NM	1283
LCS 880-1283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1283
LCSD 880-1283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1283

Prep Batch: 1303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-465-2	CH04A	Total/NA	Solid	8015NM Prep
MB 880-1303/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-1303/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-1303/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep

Analysis Batch: 1310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-465-2	CH04A	Total/NA	Solid	8015B NM	1303
MB 880-1303/1-A	Method Blank	Total/NA	Solid	8015B NM	1303
LCS 880-1303/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1303
LCSD 880-1303/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1303

HPLC/IC

Leach Batch: 1412

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-465-1	CH04	Soluble	Solid	DI Leach	
890-465-2	CH04A	Soluble	Solid	DI Leach	
MB 880-1412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

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SDG: TE012920072

HPLC/IC (Continued)

Leach Batch: 1412 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
nalysis Batch: 1523					
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
390-465-1	CH04	Soluble	Solid	300.0	141
390-465-2	CH04A	Soluble	Solid	300.0	141
MB 880-1412/1-A	Method Blank	Soluble	Solid	300.0	141
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	141
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	141

Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1 SDG: TE012920072

Lab Sample ID: 890-465-1

Lab Sample ID: 890-465-2

Client Sample ID: CH04 Date Collected: 03/30/21 13:30 Date Received: 03/31/21 13:21

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 07:24	AJ	XM
Total/NA	Prep	8015NM Prep			1283	04/03/21 13:41	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/05/21 07:29	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:15	СН	XM

Lab Chronicle

Client Sample ID: CH04A Date Collected: 03/30/21 13:50 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1404	04/06/21 16:49	MR	XM
Total/NA	Analysis	8021B		1	1370	04/07/21 07:45	AJ	XM
Total/NA	Prep	8015NM Prep			1303	04/05/21 09:24	DM	XM
Total/NA	Analysis	8015B NM		1	1310	04/05/21 18:57	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:20	СН	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Matrix: Solid

9 Matrix: Solid

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Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-465-1 SDG: TE012920072

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Ithority		Program	Identification Number	Expiration Date
xas		NELAP	T104704400-20-21	06-30-21
The following analytes the agency does not c		but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
0,		Matrix	Analyte	
Analysis Method 8015B NM	Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

Project/Site: Phantom Bank 25-25-30

Job ID: 890-465-1 SDG: TE012920072

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	XM
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
00.0	Anions, Ion Chromatography	MCAWW	XM
035	Closed System Purge and Trap	SW846	XM
015NM Prep	Microextraction	SW846	XM
01 Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

Client: WSP USA Inc.

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-465-1 SDG: TE012920072

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-465-1	CH04	Solid	03/30/21 13:30	03/31/21 13:21	- 1	
90-465-2	CH04A	Solid	03/30/21 13:50	03/31/21 13:21	- 4	
						Ę
						8
						ç
						1
						1
						1

	MATT .	Relinquisbed by: (Signature)	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 contro 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.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed				CHOHA	CHOH	Sample Identification	Sample Custody Seals: Yes No	Cooler Custody Seals: Yes No	Received Intact: (Yes)	Temperature (°C):	SAMPLE RECEIPT Tem	Sampler's Name: Travis Casey	NRM 201	Project Number: TEO129200	Project Name: Planny from		City, State ZIP: Midland, TX 79705		2	Project Manager: Tacoin 4	XENCO
	Colday Ordi	Received by	Ishment of samples constitut It of samples and shall not as applied to each project and a						5 3-30-21	Matrix Date Sampled	NIA	N/A	NO T-NN		Temp Blank: Yes No		2453444	00 72	Jay 16 25-25-		705	3300 North A St. Bldg 1, Unit 222	Permian office	No Misser	Hobbs,N
	adonez	Received by: (Signature)	es a valid purchase order fro sume any responsibility for a charge of \$5 for each sampl	8RCRA 13PPM Texas 11 TCLP/SPLP 6010: 8RC				1350 4'	1330 1	Time Depth Sampled	Total Containers:	Correction Factor:	1-007	Thermometer ID	Wet Ice: Yes No	Due Date:		Routine K	30 Turn Around	Email: travis.case	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Houston,TX (281) 240- Midland,TX (432-704- VM (575-392-7550) Phoeni
	3/31/21 13:21	Date/Time	m client company to Xenco, Its any losses or expenses incurred e submitted to Xenco, but not ar	11 AI Sb As Ba Be RCRA Sb As Ba Be				1 8 8 8	- 9 9 9	Numbe TPH (EI BTEX (I Chlorid	PA 8	015) 802) 1)		s					travis.casey@wsp.com, kalei.jennir	IP: Carlsbad, NM	3104 E Greene St.	ame: XTO Energy	rent) Kyle Littrell	Chain of Custody 4200 Dallas,TX (214) 902-0300 San Antonio. 5440) EL Paso,TX (915)585-3443 Lubbock,T x,AZ (480-355-0900) Atlanta,GA (770-449-880
5	4 2	Relinquished by: (Signature)	nature 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 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 A minimum charge of \$76.00 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.	RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn TCLP/SPLP 6010. SRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo NI Se Ag															ANALYSIS REQUEST	kalei.jennings@wsp.com, dan.moir@w					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)
		ture) Received by: (Signature)	tors. It assigns standard terms and conditions ses are due to circumstances beyond the control be enforced unless previously negotiated.	Pb Mg Mn Mo Ni K Se Ag SiO2 o Ni Se Ag TI U															JEST	Deliverables: EDD] evel III	State of Project: NM	PRP		Work Order No:
Revised Date 051418 Rev 2018.1		nature) Date/Time		92 Na Sr TI Sn U V Zn 1631/245.1/7470 /7471:Hg					Pisctete	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the			4217-210-01 S-40756	CIF. 1190CCIDDI	MA 1111 77 1001	>	Work Order Notes	ADaPT L Other:	Ę]	□Brownfields □RC □uperfund □	Work Order Comments	r No:

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Received by OCD: 6/4/2021 10:04:31 AM

	> eais	Relinquished by:	Reinquisned by	resinguisties by JOE WAY 3.31.21	Empty Kit Relinquished by	Deliverable Requested II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Inversive subvision and subvision and subvision of the provided analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC accreditation inmediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC accreditations are current to the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC accreditations are current to the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC accreditations are current to the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC accreditations are current to the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC accreditations are current to the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC accreditations are current to the single Xenco Accredi	Note Since laborations approximitions are subject to observe European Verse Lin						CH04A (890-465-2)	CH04 (890-465-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: Phantom Bank 25-25-30	Email	Phone 432-704-5440(Tel)	State Zip TX 79701	City Midland	Address 1211 W Florida Ave	Company Eurofins Xenco	Shipping/Receiving	Client Information (Sub Contract Lab)	Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199
		Date/Time:	Date/Time:	Date/Time:		Primary Deliverable Rank		being analyzed the sa turn the signed Chain o							3/30/21	3/30/21	X	Sample Date	SSOW#:	Project #: 89000004	WO #	PO #	I	TAT Requested (days)	Due Date Requested 4/6/2021		Phone:	Sampler	G
					Date			of method ar mples must t f Custody atte							13 50 Mountain	13 30 Mountain	X	Sample Time						/s)	2				hain
						Ν		nalyte & accre be shipped ba esting to said									Preserva	Sample Type (C=comp, G=grab)											of Cus
		Company	Company	Company				ditation complick to the Europhicance to							Solid	Solid	Preservation Code:	Matrix (W=water S=soild O=waste/oil, BT=Tissue, A=Air									lE-Mail. jessic	Lab	Chain of Custody Record
					Time	Sp	Sa	ance upor ins Xenco) Eurofins					 				Cartonille	Field Filtered		OCTOR NO.		s)				Accredi NELA	E-Mail essica kramer@eurofinset.com	Lab PM Kramer Je	Reco
Γ	Cooler	Received by	Received by	Receiv		Special Instructions/QC Requirements	Sample Disposal (LLC lab Xenco L							×	×		8015MOD_NM/8								Accreditations Required (See note) NELAP - Louisiana, NELAP - Texas	ner@e	Jessica	rd
	Cooler Temperature(s) °C	ed by:	ed by:	·	$\left \right $	struct	ole Disposal (A f Return To Client	oratory	-				 		××	××		300_ORGFM_2			Chlori	de 				Required	urofin		
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	and Other Remarks			Ľ		quiren	nay bo	This se ctions w					 											_[Analysis Requested	exas			
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	ks.				Meth		assessed if san Disposal By Lab	hipmer, rovided	-	1			 				لينين ليونيا								sted		State of Origin New Mexico	Carrier Tracking No(s):	
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				.30			A fee may be assessed if samples are retained longer than 1 month) ant Disposal By Lab Archive For Mont	-custody on status										ю	Other	L EDA	l Ice J - DI Water	F MeOH G Amchlor H - Ascorbic Acid	C Zn Acetal D Nitric Acid E NaHSO4	A HCL	Preservation Codes	Job #: 890-465-1	Page: Page 1 of 1	COC No ⁻ 890-142 1	💸 eurofins
			:	5.0			yer th	y If the should									I	pecia		Ä	ater	nhior An	Zn Acetate Nitric Acid NaHSO4	I	ration	5-	of 1	21	rofir
				(vV			an 1 i) labora 1 be bro									$\ $	d Inst		N					Code				
Ver 1		Company	Company	Company			nonth Mor	ntory dow pught to									I	Special Instructions/Note:		V pH z othe	U - Acetone V MCAA	F TSP	O AsN P Na20 Q Na2	M Hex	"				Environn America
11/01/2020		Ŋ	ny	лу			nth) Months	es not c Eurofir									Ц	yns/N		pH 4-5 other (specify)	tone A	04 04	AsNaO2 Na2O4S Na2SO3	Hexane Vone					mmenl ca
920								turrently 1s Xenc										ote:		fy)	anyuran	Na2S2O3 H2SO4 TSP Dodershudrate							Environment Testing America
L								0]						l				-				l]		ρη.

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 465 List Number: 1

Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-465-1 SDG Number: TE012920072

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 465 List Number: 2 Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-465-1 SDG Number: TE012920072

List Source: Eurofins Midland

List Creation: 04/01/21 11:42 AM

Received by OCD: 6/4/2021 10:04:31 AM

eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-466-1

Laboratory Sample Delivery Group: TE012920072 Client Project/Site: Phantom Bank 25-25-30

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Dan Moir

RAMER

Authorized for release by: 4/9/2021 4:45:40 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 9/8/2021 2:42:16 PM

Laboratory Job ID: 890-466-1 SDG: TE012920072

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Definitions/Glossary

Client: WSP	USA Inc.
Project/Site:	Phantom Bank 25-25-30

Job ID: 890-466-1 SDG: TE012920072

FTOJECI/OILE. FTI	antoin Bank 25-25-50 5DG. 1E012920072	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
	Indicates the analyte was analyzed for but not detected.	8
	······································	
Glossary		9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	10
DL	Detection Limit (DoD/DOE)	18
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

QC

RER

RPD TEF

TEQ

TNTC

RL

4

5

Case Narrative

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-466-1 SDG: TE012920072

Job ID: 890-466-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-466-1

Receipt

The samples were received on 3/31/2021 1:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Project/Site: Phantom Bank 25-25-30

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

0.00200

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Ilmit

D

Prepared

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

Prepared

04/08/21 10:10

04/08/21 10:10

Droporod

Job ID: 890-466-1 SDG: TE012920072

Client Sample ID: CH05

Date Collected: 03/30/21 11:15 Date Received: 03/31/21 13:21

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-466-1

mple ID: 890 Matri)-466-1 x: Solid	3
		4
		5
Analyzed	Dil Fac	
04/08/21 22:31	1	6
04/08/21 22:31	1	
04/08/21 22:31	1	7
04/08/21 22:31	1	
04/08/21 22:31	1	8
04/08/21 22:31	1	
04/08/21 22:31	1	9
Analyzed	Dil Fac	10
04/08/21 22:31	1	11
Analyzed	Dil Fac	12
04/05/21 19:19	1	
04/05/21 19:19	1	13

Method: 8015B NM -	Diesel Range	Organics (DRO) (GC)
Amelute		Deer	

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

<0.00200 U

%Recovery Qualifier

121

82

Analyte	Result	Qualifier	RL	Unit	U	Prepared	Analyzed	DIFac	
Gasoline Range Organics	<49.8	U *+	49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	55.8		49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1	
Total TPH	55.8		49.8	mg/Kg		04/05/21 09:24	04/05/21 19:19	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	110		70 130			04/05/21 00.24	04/05/21 10.10	1	

ы

Analyte	Popult Qualifier	DI	Unit	D Pror	narod	Analyzod	Dil Eac	
Method: 300.0 - Anions, Ion Chromato	graphy - Soluble							
o-Terphenyl	111	70 - 130		04/05/2	21 09:24	04/05/21 19:19	1	
1-Chlorooctane	110	70 - 130		04/05/2	21 09:24	04/05/21 19:19	1	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9	4.98	mg/Kg			04/08/21 21:25	1

Client Sample ID: CH05A Date Collected: 03/30/21 11:40 Date Received: 03/31/21 13:21

Sample Depth: - 4

Lab Sample ID: 890-466-2

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Total BTEX	<0.00199	U	0.00199	mg/Kg		04/08/21 10:10	04/08/21 22:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			04/08/21 10:10	04/08/21 22:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130			04/08/21 10:10	04/08/21 22:56	1
Job ID: 890-466-1

Matrix: Solid

5

SDG: TE012920072

Lab Sample ID: 890-466-2

Client Sample Results

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Client Sample ID: CH05A

Date Collected: 03/30/21 11:40 Date Received: 03/31/21 13:21

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *+	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1
Total TPH	<50.0	U	50.0	mg/Kg		04/05/21 09:24	04/05/21 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			04/05/21 09:24	04/05/21 19:40	1
p-Terphenyl	112		70 - 130			04/05/21 09:24	04/05/21 19:40	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

			Percent Surrogate Recovery (Acceptance Limits)	
	BFB1	DFBZ1		
Client Sample ID	(70-130)	(70-130)		
CH05	121	82		
CH05A	113	94		
Lab Control Sample	101	96		
Lab Control Sample Dup	110	112		
Method Blank	75	83		
	CH05 CH05A Lab Control Sample Lab Control Sample Dup	Client Sample ID(70-130)CH05121CH05A113Lab Control Sample101Lab Control Sample Dup110	Client Sample ID (70-130) (70-130) CH05 121 82 CH05A 113 94 Lab Control Sample 101 96 Lab Control Sample Dup 110 112	BFB1 DFBZ1 Client Sample ID (70-130) CH05 121 CH05A 113 Lab Control Sample 101 Lab Control Sample Dup 110

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID 90-466-1	Client Sample ID CH05	(70-130)	(70-130)	
90-466-2	CH05 CH05A	110 109	111 112	
CS 880-1303/2-A	Lab Control Sample	109	112	
CSD 880-1303/3-A	Lab Control Sample Dup	114	106	
B 880-1303/1-A	Method Blank	112	124	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

Page 110 of 183

QC Sample Results

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-150	6/5-A								Client Sa	mple ID: Meth	od Blanl
Matrix: Solid										Prep Type:	Total/N/
Analysis Batch: 1508										Prep Bat	ch: 150
		MB MB									
Analyte	Re	sult Quali	ifier RL		Unit		D	Pr	epared	Analyzed	Dil Fa
Benzene	<0.00	200 U	0.00200		mg/K	g		04/08	3/21 10:10	04/08/21 16:14	
Toluene	<0.00	200 U	0.00200		mg/K	g		04/08	8/21 10:10	04/08/21 16:14	
Ethylbenzene	<0.00	200 U	0.00200		mg/K	g		04/08	3/21 10:10	04/08/21 16:14	
m-Xylene & p-Xylene	<0.00	399 U	0.00399		mg/K	g		04/08	8/21 10:10	04/08/21 16:14	
o-Xylene	<0.00	200 U	0.00200		mg/K	g		04/08	3/21 10:10	04/08/21 16:14	
Xylenes, Total	<0.00	399 U	0.00399		mg/K	g		04/08	8/21 10:10	04/08/21 16:14	
Total BTEX	<0.00	0200 U	0.00200		mg/K	g		04/08	3/21 10:10	04/08/21 16:14	
		МВ МВ									
Surrogate	%Reco	very Qual	ifier Limits					Pr	epared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		75	70 - 130				-	04/08	3/21 10:10	04/08/21 16:14	
1,4-Difluorobenzene (Surr)		83	70 - 130					04/08	8/21 10:10	04/08/21 16:14	
Lab Sample ID: LCS 880-15	06/1-A						CI	ient	Sample	D: Lab Contro	l Sample
Matrix: Solid										Prep Type:	
Analysis Batch: 1508										Prep Bat	
· · · · · , · · · · · · · · · · · · · · · · · · ·			Spike	LCS	LCS					%Rec.	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.1038		mg/Kg			104	70 - 130	
Toluene			0.100	0.1129		mg/Kg			113	70 - 130	
Ethylbenzene			0.100	0.1056		mg/Kg			106	70 - 130	
m-Xylene & p-Xylene			0.200	0.2152		mg/Kg			108	70 - 130	
o-Xylene			0.100	0.1146		mg/Kg			115	70 - 130	
	LCS	LCS									
			•• •								
Surrogate	%Recovery	Qualifier	Limits								
Surrogate 4-Bromofluorobenzene (Surr)	% Recovery 101	Qualifier	<i>Limits</i> 70 _ 130								

Lab Sample ID: LCSD 880-1506/2-A Matrix: Solid

Analysis Batch: 1508							Pre	p Batch	: 1506
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1103		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1052		mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1110		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2278		mg/Kg		114	70 - 130	6	35
o-Xylene	0.100	0.1231		mg/Kg		123	70 - 130	7	35
LCS	SD LCSD								

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 890-466-1

SDG: TE012920072

Released to Imaging: 9/8/2021 2:42:16 PM

QC Sample Results

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

	A										Client Sa	mple ID: I	Nethod	Blank
Matrix: Solid												Prep T		
Analysis Batch: 1310													Batch	
		ΜВ	МВ											
Analyte	Res	sult	Qualifier	R	L		Unit		D	Pi	repared	Analyz	əd	Dil Fac
Gasoline Range Organics	<5	50.0	U	50.	0		mg/Kg		_	04/0	5/21 09:24	04/05/21 1	5:03	1
(GRO)-C6-C10														
Diesel Range Organics (Over C10-C28)	<5	50.0	U	50.	0		mg/Kg			04/0	5/21 09:24	04/05/21 1	5:03	1
Oll Range Organics (Over C28-C36)	<5	50.0	U	50.	0		mg/Kg			04/0	5/21 09:24	04/05/21 1	5:03	1
Total TPH	<5	50.0	U	50.	0		mg/Kg			04/0	5/21 09:24	04/05/21 1	5:03	1
		ΜВ	МВ											
Surrogate	%Recov		Qualifier	Limits						PI	repared	Analyz	ed	Dil Fac
1-Chlorooctane		112		70 - 130	_						5/21 09:24	04/05/21		1
o-Terphenyl		124		70 - 130							5/21 09:24	04/05/21		1
Lab Sample ID: LCS 880-1303/2	- A								С	lient	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid												Prep T	ype: To	tal/NA
Analysis Batch: 1310												Prep	Batch	: 1303
				Spike	LCS	LCS	5					%Rec.		
Analyte				Added	Result	Qua	alifier	Unit		D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10				1000	1426	*+		mg/Kg			143	70 - 130		
Diesel Range Organics (Over C10-C28)				1000	1198			mg/Kg			120	70 - 130		
,	LCS	LCS												
Surrogate	%Recovery	Qual	ifier	Limits										
1-Chlorooctane	114			70 - 130										
o-Terphenyl	111			70 - 130										
								~		•				
Lab Sample ID: LCSD 880-1303	3-A							CI	ient	Sam	pie ID: L	ab Contro		
Matrix: Solid												Prep T		
Analysis Batch: 1310													b Batch	
				Spike	LCSD					_		%Rec.		RPD
Analyte				Added	Result		alifier	Unit		<u>D</u>	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10				1000	1308	*+		mg/Kg			131	70 - 130	9	20
Diesel Range Organics (Over				1000	1154			mg/Kg			115	70 - 130	4	20
C10-C28)														
	LCSD	LCSI	D											
Surrogate	%Recovery			Limits										
1-Chlorooctane	114			70 - 130										
o-Terphenyl	106			70 - 130										
/lethod: 300.0 - Anions, Ion	Chromato	oara	aphy											
		<u></u>	1											
Lab Sample ID: MB 880-1412/1-	Α										Client Sa	mple ID: N		
Matrix: Solid												Prep ⁻	Гуре: S	oluble
Analysis Batch: 1523														
		MB	MB											
Analyte	Res	sult	Qualifier	R			Unit		D	Pi	repared	Analyz	ed	Dil Fac
Chloride	<5	5.00	U	5.0	0		mg/Kg			_		04/08/21 1	9:02	1

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Job ID: 890-466-1 SDG: TE012920072

QC Sample Results

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-466-1 SDG: TE012920072

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1412/2-A Matrix: Solid Analysis Batch: 1523					Client	Sample	e ID: Lab Co Prep	ontrol S Type: S	
Analysis Datch. 1323	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	265.5		mg/Kg		106	90 - 110		
Lab Sample ID: LCSD 880-1412/3-A Matrix: Solid Analysis Batch: 1523				Clie	nt Sam	nple ID:	Lab Contro Prep	ol Sampl Type: S	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	265.3		mg/Kg		106	90 _ 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

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Job ID: 890-466-1 SDG: TE012920072

GC VOA

Prep Batch: 1506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Total/NA	Solid	5035	
890-466-2	CH05A	Total/NA	Solid	5035	
MB 880-1506/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1506/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1506/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 1508					
	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
nalysis Batch: 1508 Lab Sample ID		Prep Type Total/NA	<u>Matrix</u> Solid	<u>Method</u> 8021B	
nalysis Batch: 1508 Lab Sample ID 890-466-1	Client Sample ID				Prep Batch 1506 1506
nalysis Batch: 1508 Lab Sample ID 390-466-1 390-466-2	CH05	Total/NA	Solid	8021B	1500 1500
nalysis Batch: 1508	Client Sample ID CH05 CH05A	Total/NA Total/NA	Solid	8021B 8021B	1500

GC Semi VOA

Prep Batch: 1303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Total/NA	Solid	8015NM Prep	
890-466-2	CH05A	Total/NA	Solid	8015NM Prep	
MB 880-1303/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1303/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1303/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Total/NA	Solid	8015B NM	1303
890-466-2	CH05A	Total/NA	Solid	8015B NM	1303
MB 880-1303/1-A	Method Blank	Total/NA	Solid	8015B NM	1303
LCS 880-1303/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1303
LCSD 880-1303/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1303

HPLC/IC

Leach Batch: 1412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-466-1	CH05	Soluble	Solid	DI Leach	
890-466-2	CH05A	Soluble	Solid	DI Leach	
MB 880-1412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1523

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-466-1	CH05	Soluble	Solid	300.0	1412
890-466-2	CH05A	Soluble	Solid	300.0	1412
MB 880-1412/1-A	Method Blank	Soluble	Solid	300.0	1412
LCS 880-1412/2-A	Lab Control Sample	Soluble	Solid	300.0	1412
LCSD 880-1412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1412

Job ID: 890-466-1 SDG: TE012920072

Lab Sample ID: 890-466-1 Matrix: Solid

Lab Sample ID: 890-466-2

Date Collected: 03/30/21 11:15 Date Received: 03/31/21 13:21

Client Sample ID: CH05

Project/Site: Phantom Bank 25-25-30

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1506	04/08/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	1508	04/08/21 22:31	AJ	XM
Total/NA	Prep	8015NM Prep			1303	04/05/21 09:24	DM	XM
Total/NA	Analysis	8015B NM		1	1310	04/05/21 19:19	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:25	СН	XM

Client Sample ID: CH05A Date Collected: 03/30/21 11:40 Date Received: 03/31/21 13:21

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1506	04/08/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	1508	04/08/21 22:56	AJ	XM
Total/NA	Prep	8015NM Prep			1303	04/05/21 09:24	DM	XM
Total/NA	Analysis	8015B NM		1	1310	04/05/21 19:40	AJ	XM
Soluble	Leach	DI Leach			1412	04/06/21 19:01	SC	XM
Soluble	Analysis	300.0		1	1523	04/08/21 21:30	СН	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Matrix: Solid

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Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1 SDG: TE012920072

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Pro	ogram	Identification Number	Expiration Date
exas	NE	ELAP	T104704400-20-21	06-30-21
The following analytes	are included in this report, bu	it the laboratory is not certil	fied by the governing authority. This list ma	ay include analytes for w
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
8 ,		Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30

Job ID: 890-466-1 SDG: TE012920072

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: Phantom Bank 25-25-30 Job ID: 890-466-1 SDG: TE012920072

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-466-1	CH05	Solid	03/30/21 11:15	03/31/21 13:21	- 1	
90-466-2	CH05A	Solid	03/30/21 11:40	03/31/21 13:21	- 4	
						Ę
						9
						1
						1

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 for 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 negotilated. Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: Received by: (Signature) 1 J J J J J Received by: (Signature) Received by: (Signature) Received by: Recei	Project Number: The True Finds Unit of State Project Number: TED/2420072 P.O. Number: N/N/2012453944 Sampler's Name: Travis Casey Temperature (°C): No Temp Blank: Cooler Custody Seals: Yes Sample Custody Seals: Yes Sample Custody Seals: Yes CHD5A J CHD5A J Circle Mathod(s) and Matelle) to be analyzed	Name: R. Tour		e ZIP:	Address: 3300 North A :		Project Manager: / / come	XENC
quishment of samples constitutes a valid purcha cost of samples and shall not assume any response applied to each project and a charge of \$5 for Received by: (Signature) Received by: (Signature) CODDA OYOOJACL	887	Berly 7575-30		9705	3300 North A St. Bldg 1, Unit 222	177	Marrisky	Hous Mic
purchase order from clie responsibility for any los f \$5 for each sample subn ature)	PM Texas 11	Turn Around	ail: travis.casey@w	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	(iton,TX (281) 240-4200 lland,TX (432-704-5440) 392-7550) Phoenix,AZ (
Illent company to Xenco, its affil losses or expenses incurred by bmitted to Xenco, but not analy Date/Time 3/3/[2] 1/3,72 2 6	C C		Email: travis.casey@wsp.com, kalei.jennings@wsp.com, d	Carlsbad, NM	3104 E Greene St.	XTO Energy	Kyle Littrell	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta.GA (770-449-8800)
lates and subcontractors. It assigns sta the client if such losses are due to circu zed. These terms will be enforced unless Relinquished by: (Signature)	B Cd Ca Cr Co Cu Fe Pb Mg Mn	ANALYSIS REQUEST	@wsp.com, dan.moir@w					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 (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa,FL (813-620-2000)
It assigns standard terms and conditions re due to circumstances beyond the control nforced unless previously negotlated. (Signature) Received by: (Signature)	Mn Mo Ni K Se Ag SiO2	ST	Deliverables: EDD ADaP	Reporting:Level IIevel IIIPST	State of Project: NM	Program: UST/PST PRP Brownfields	Work Order Comments	Work Order No:
ure) Date/Time Revised Date 051418 Rev 2018.1	CCH: 114 022 [00] APT: 30-b1 5 - 40756 TAT starts the day received by the lab. if received by 4:30pm Sample Comments Sample Comments Na Sr TI Sn U V Zn Na Sr TI Sn U V Zn	Work Order Notes	ADaPT Other:			nfields RC uperfund	Comments	lo: Page of

4/9/2021



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Custody Seals Intact	Relinquished by Date/Time:	Reinquished by	(ice (into 3.3)ZI	linquished by	II III IV Other (specify)		Inversal review of accreditation in the State of Origin listed above for analyte shore the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	Nota Since laboration accorditations are attribute schemes. Transfers Variated 10, 11, 11, 11				CH05A (890-466-2) 3/30/21	CH05 (890-466-1) 3/30/21	X	Sample Identification - Client ID (Lab ID) Sample Date	Site SSOW#	Project # Phantom Bank 25-25-30 89000004	Email WO #	704-5440(Tel)	State, Zip TX, 79701		Address. Due Date Requested	Eurofins Xenco	Shipping/Receiving	ormation (Sub Contract Lab)	1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199
				Date	Primary Deliverable Rank 2		ship of method analyte & a he samples must be shipped hain of Custody attesting to s					11 40 Mountain	Mountain		Sample Type Sample (C=comp, te Time G=grab)						d (days):	lested				Chain of C
	Company	Company	Company	Time			ccreditation compliance u d back to the Eurofins Xe said complicance to Eurof					Solid	Solid	ation Code:	le Matrix er (W=water S=solid, H D) BT=Tissue, A=Air) Lie	Samp	9 (Yes	or No	5)				Acc	E-Maii jessica H	Lab PM Kramer,	Chain of Custody Record
Cooler Temperature(s) °C and Other	Received by	Received by	Regenergy	пе	Special Instructions/QC Requirements	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mont	upon out subcontract laboratories. This sa anco LLC laboratory or other instructions w xins Xenco LLC					× × ×		10.50 10.1	Perform MS/N 8015MOD_NM/8 300_ORGFM_21 8021B/6036FP_	015NN	LS_Pr	ep Full			Anaiysis		Accreditations Required (See note) NELAP - Louisiana NELAP - Texas	E-Mail [.] essica kramer@eurofinset.com	Lab PM Kramer, Jessica	cord
and Other Remarks.	Date/Time.	Date/Time	Date/Time 4-1-2	Method of Shipment:		e assessed if samples are rei	ample shipment is forwarded under ch vill be provided Any changes to accre														Kequested			State of Origin: New Mexico	Carrier Tracking No(s)	
	Company	Company	1 II 3 Uan			tained longer than 1 month) Archive For Months	rain-of-custody If the laboratory does not current aditation status should be brought to Eurofins Xen					3 4 9		Ì	Total Number Special Instructions/Note	of con Other:	K EDTA V L EDA Z	I Ice J DI Water	MeOH R Amchlor S Ascorbic Acid T	C Zn Acetate O AsNaO2 D Nitric Acid P - Na2O4S E NaHSO4 Q Na2SO3	HCL NaOH	Preservation Codes	Job # [.] 890-466-1	Page: Page 1 of 1	COC No: 890-142 1	Reurofins Environment Testing

12 13 14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 466 List Number: 1

Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-466-1 SDG Number: TE012920072

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 466 List Number: 2 Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-466-1 SDG Number: TE012920072

List Source: Eurofins Midland

List Creation: 04/01/21 11:42 AM



Project Id: 012920072

Contact: Dan Moir

Project Location:

Certificate of Analysis Summary 661296

LT Environmental, Inc., Arvada, CO

Project Name: Phantom Banks 25-25-30

 Date Received in Lab:
 Tue 05.12.2020 14:00

 Report Date:
 05.15.2020 08:45

Project Manager: Jessica Kramer

	Lab Id:	661296-0	001	661296-0	02	661296-0	003	661296-0	004	
Analysis Requested	Field Id:	BH01		BH02		BH03		BH04		
Analysis Kequestea	Depth:	1- ft		1- ft		1- ft		1- ft		
	Matrix:	SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	05.11.2020	11:15	05.11.2020	11:45	05.11.2020	12:30	05.11.2020	15:50	
BTEX by EPA 8021B	Extracted:	05.12.2020	14:21	05.12.2020	14:21	05.12.2020	14:21	05.12.2020	14:21	
	Analyzed:	05.13.2020	15:17	05.13.2020	15:37	05.13.2020	14:56	05.13.2020	09:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.0250	0.0250	< 0.0500	0.0500	< 0.00260	0.00260	< 0.00200	0.00200	
Toluene		0.0480	0.0250	3.94	0.200	< 0.00260	0.00260	< 0.00200	0.00200	
Ethylbenzene		1.08	0.100	2.14	0.200	0.100	0.0104	< 0.00200	0.00200	
m,p-Xylenes		0.952	0.200	4.55	0.400	0.182	0.0208	< 0.00399	0.00399	
o-Xylene		6.12	0.100	7.13	0.200	0.485	0.0104	< 0.00200	0.00200	
Total Xylenes		7.07	0.100	11.7	0.200	0.667	0.0104	< 0.00200	0.00200	
Total BTEX		8.20	0.0250	17.8	0.0500	0.767	0.00260	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	05.12.2020	17:00	05.12.2020	17:00	05.12.2020	17:00	05.12.2020	17:00	
	Analyzed:	05.13.2020	00:54	05.13.2020	01:00	05.13.2020	01:05	05.13.2020	01:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		880	9.94	196	10.0	962	9.94	124	9.98	
TPH by SW8015 Mod	Extracted:	05.13.2020	11:40	05.13.2020	11:40	05.13.2020	11:40	05.13.2020	11:40	
	Analyzed:	05.14.2020	02:34	05.14.2020	11:27	05.14.2020	03:15	05.14.2020	10:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		841	50.2	2990	502	254	50.2	<50.0	50.0	
Diesel Range Organics (DRO)		4680	50.2	15800	502	3200	50.2	107	50.0	
Motor Oil Range Hydrocarbons (MRO)		371	50.2	1070	502	271	50.2	<50.0	50.0	
Total GRO-DRO		5520	50.2	18800	502	3450	50.2	107	50.0	
Total TPH		5890	50.2	19900	502	3730	50.2	107	50.0	

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

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

fession Vramer

Jessica Kramer Project Manager

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Analytical Report 661296

for

LT Environmental, Inc.

Project Manager: Dan Moir

Phantom Banks 25-25-30

012920072

05.15.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



05.15.2020

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

Reference: XENCO Report No(s): 661296 Phantom Banks 25- 25-30 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 XENCO Report Number(s) 661296. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 661296 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

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 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	05.11.2020 11:15	1 ft	661296-001
BH02	S	05.11.2020 11:45	1 ft	661296-002
BH03	S	05.11.2020 12:30	1 ft	661296-003
BH04	S	05.11.2020 15:50	1 ft	661296-004



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Phantom Banks 25- 25-30

 Project ID:
 012920072

 Work Order Number(s):
 661296

 Report Date:
 05.15.2020

 Date Received:
 05.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id: BH01 Lab Sample Id: 661296-001		Matrix Date C	: Soil ollected: 05.11	1.2020 11:15		Date Received:05.12 Sample Depth: 1 ft	2.2020 14	:00
Analytical Method: Chloride by EPA Tech: MAB	A 300					Prep Method: E300 % Moisture:	P	
Analyst: MAB		Date P	ren [.] 05.12	2.2020 17:00		Basis: Wet	Weight	
Seq Number: 3125748		Dute	iop.				0	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	880	9.94		mg/kg	05.13.2020 00:54		1
Analytical Method: TPH by SW801: Tech: DTH Analyst: DTH Seq Number: 3125908	5 Mod	Date P	rep: 05.13	3.2020 11:40		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	841	50.2		mg/kg	05.14.2020 02:34		1
Diesel Range Organics (DRO)	C10C28DRO	4680	50.2		mg/kg	05.14.2020 02:34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	371	50.2		mg/kg	05.14.2020 02:34		1
Total GRO-DRO	PHC628	5520	50.2		mg/kg	05.14.2020 02:34		1
Total TPH	PHC635	5890	50.2		mg/kg	05.14.2020 02:34		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	05.14.2020 02:34		
o-Terphenyl		84-15-1	116	%	70-135	05.14.2020 02:34		



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id:BH01Lab Sample Id:661296-001	Matrix:	Soil	Date Received	d:05.12.2020 14:00
	Date Collecte	ed: 05.11.2020 11:15	Sample Depth	n: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3125867	Date Prep:	05.12.2020 14:21	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0250	0.0250		mg/kg	05.13.2020 15:17	U	50
Toluene	108-88-3	0.0480	0.0250		mg/kg	05.13.2020 15:17		50
Ethylbenzene	100-41-4	1.08	0.100		mg/kg	05.13.2020 15:17		50
m,p-Xylenes	179601-23-1	0.952	0.200		mg/kg	05.13.2020 15:17		50
o-Xylene	95-47-6	6.12	0.100		mg/kg	05.13.2020 15:17		50
Total Xylenes	1330-20-7	7.07	0.100		mg/kg	05.13.2020 15:17		50
Total BTEX		8.20	0.0250		mg/kg	05.13.2020 15:17		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	05.13.2020 15:17		
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.13.2020 15:17		



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Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id:BH02Lab Sample Id:661296-002		Matrix: Date Col	Soil llected: 05.11.2020 11:45		Date Received:05.1 Sample Depth: 1 ft	2.2020 14:	00
Analytical Method: Chloride by EPA	A 300				Prep Method: E30	0P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Pre	p: 05.12.2020 17:00		Basis: Wet	Weight	
Seq Number: 3125748		2000110	P •			U	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	196	10.0	mg/kg	05.13.2020 01:00		1
Analytical Method:TPH by SW8015Tech:DTHAnalyst:DTHSeq Number:3125908	5 Mod	Date Pre	p: 05.13.2020 11:40		Prep Method: SW3 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	· Result 2990	RL 502	Units mg/kg	Analysis Date 05.14.2020 11:27	Flag	Dil 10
						Flag	
Gasoline Range Hydrocarbons (GRO)	PHC610	2990	502	mg/kg	05.14.2020 11:27	Flag	10
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	2990 15800	502 502	mg/kg mg/kg	05.14.2020 11:27 05.14.2020 11:27	Flag	10 10
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	2990 15800 1070	502 502 502	mg/kg mg/kg mg/kg	05.14.2020 11:27 05.14.2020 11:27 05.14.2020 11:27	Flag	10 10 10

106

111

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

05.14.2020 11:27

05.14.2020 11:27

70-135

70-135

%

%

Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id:BH02Lab Sample Id:661296-002	Matrix: Date Collecte	Soil ed: 05.11.2020 11:45	Date Received Sample Depth	d:05.12.2020 14:00 n: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method: % Moisture:	SW5035A
Analyst:MABSeq Number:3125867	Date Prep:	05.12.2020 14:21	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0500	0.0500		mg/kg	05.13.2020 15:37	U	100
Toluene	108-88-3	3.94	0.200		mg/kg	05.13.2020 15:37		100
Ethylbenzene	100-41-4	2.14	0.200		mg/kg	05.13.2020 15:37		100
m,p-Xylenes	179601-23-1	4.55	0.400		mg/kg	05.13.2020 15:37		100
o-Xylene	95-47-6	7.13	0.200		mg/kg	05.13.2020 15:37		100
Total Xylenes	1330-20-7	11.7	0.200		mg/kg	05.13.2020 15:37		100
Total BTEX		17.8	0.0500		mg/kg	05.13.2020 15:37		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	05.13.2020 15:37		
1,4-Difluorobenzene		540-36-3	99	%	70-130	05.13.2020 15:37		



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id: BH03 Lab Sample Id: 661296-003		Matrix Date C	: Soil ollected: 05.1	1.2020 12:30		Date Received:05.12 Sample Depth: 1 ft	2.2020 14	:00
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date P	rep: 05.1	2.2020 17:00		Basis: Wet	Weight	
Seq Number: 3125748			-					
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	962	9.94		mg/kg	05.13.2020 01:05		1
Analytical Method:TPH by SW801.Tech:DTHAnalyst:DTHSeq Number:3125908	5 Mod	Date Pr	rep: 05.1	3.2020 11:40		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	254	50.2		mg/kg	05.14.2020 03:15		1
Diesel Range Organics (DRO)	C10C28DRO	3200	50.2		mg/kg	05.14.2020 03:15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	271	50.2		mg/kg	05.14.2020 03:15		1
Total GRO-DRO	PHC628	3450	50.2		mg/kg	05.14.2020 03:15		1
Total TPH	PHC635	3730	50.2		mg/kg	05.14.2020 03:15		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	129	%	70-135	05.14.2020 03:15		



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id: BH03 Lab Sample Id: 661296-003	Matrix: Date Collecte	Soil ed: 05.11.2020 12:30	Date Receiver Sample Depth	d:05.12.2020 14:00 n: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method: % Moisture:	SW5035A
Analyst: MAB Seq Number: 3125867	Date Prep:	05.12.2020 14:21	Basis:	Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00260	0.00260		mg/kg	05.13.2020 14:56	U	1
Toluene	108-88-3	< 0.00260	0.00260		mg/kg	05.13.2020 14:56	U	1
Ethylbenzene	100-41-4	0.100	0.0104		mg/kg	05.13.2020 14:56		1
m,p-Xylenes	179601-23-1	0.182	0.0208		mg/kg	05.13.2020 14:56		1
o-Xylene	95-47-6	0.485	0.0104		mg/kg	05.13.2020 14:56		1
Total Xylenes	1330-20-7	0.667	0.0104		mg/kg	05.13.2020 14:56		1
Total BTEX		0.767	0.00260		mg/kg	05.13.2020 14:56		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.13.2020 14:56		
1,4-Difluorobenzene		540-36-3	96	%	70-130	05.13.2020 14:56		



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id: BH04 Lab Sample Id: 661296-004		Matrix: Date Col	Soil lected: 05.11.2020 15:50		Date Received:05.12 Sample Depth: 1 ft	.2020 14:00
Analytical Method: Chloride by Tech: MAB Analyst: MAB Seq Number: 3125748	7 EPA 300	Date Pre	p: 05.12.2020 17:00		Prep Method: E3000 % Moisture: Basis: Wet V	P Veight
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag Dil
Chloride	16887-00-6	124	9.98	mg/kg	05.13.2020 01:11	1
Analytical Method: TPH by SW	/8015 Mod				Prep Method: SW80)15P
Tech: DTH					% Moisture:	

Analyst: DTH		Date P	rep: 05	.13.2020 11:40		Basis: We	et Weight	
Seq Number: 3125908								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Di
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	05.14.2020 10:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	107	50.0		mg/kg	05.14.2020 10:40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	05.14.2020 10:40	U	1
Total GRO-DRO	PHC628	107	50.0		mg/kg	05.14.2020 10:40		1
Total TPH	PHC635	107	50.0		mg/kg	05.14.2020 10:40		1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	05.14.2020 10:4	0	
o-Terphenyl		84-15-1	126	%	70-135	05.14.2020 10:4	0	



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id:BH04Lab Sample Id:661296-004	Matrix: Date Collecte	Soil ed: 05.11.2020 15:50	Date Received Sample Depth	d:05.12.2020 14:00 n: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method: % Moisture:	SW5035A
Analyst: MAB Seq Number: 3125867	Date Prep:	05.12.2020 14:21	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	05.13.2020 09:50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	05.13.2020 09:50		
4-Bromofluorobenzene		460-00-4	105	%	70-130	05.13.2020 09:50		

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

** Surrogate recovered outside laboratory control limit.

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

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



QC Summary 661296

LT Environmental, Inc.

Phantom Banks 25-25-30

Analytical Method: Seq Number: MB Sample Id:	Chloride b 3125748 7703192-1-	BLK		LCS Sar	-	7703192-			LCS	-	ep: 05.1 e Id: 770	2.2020 3192-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	251	100	250	100	90-110	0	20	mg/kg	05.12.2020 22:33	
Analytical Method: Seq Number:	Chloride b 3125748 661220-014	-)0		Matrix:	Soil 661220-0	14 5			rep Metho Date Pro	ep: 05.1	0P 2.2020 220-014 SD	
Parent Sample Id:	001220-014	Parent	C-11-0	MS Sal	mpie iu. MS			Limits	%RPD	RPD Sample	Units		
Parameter		Result	Spike Amount	Result	%Rec	MSD Result	MSD %Rec	Linnts	70 KF D	Limit	Omts	Analysis Date	Flag
Chloride		55.9	200	251	98	253	98	90-110	1	20	mg/kg	05.12.2020 22:50	
Analytical Method: Seq Number: Parent Sample Id:	Chloride b 3125748 661295-003	-	00		Matrix: nple Id:	Soil 661295-00)3 S			rep Metho Date Pro D Sample	ep: 05.1	0P 2.2020 295-003 SD	
		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Parameter Chloride		Result 1150	Amount 201	Result 1330	%Rec 90	Result 1350	%Rec 99	90-110	1	Limit 20	mg/kg	Date 05.13.2020 00:13	Flag
Analytical Method: Seq Number:	TPH by SV 3125908	V8015 M	od		Matrix:	Solid			Pr	rep Metho Date Pro		8015P 3.2020	
MB Sample Id:	7703305-1-	BLK		LCS Sar	nple Id:	7703305-	I-BKS		LCS	D Sample	e Id: 770	3305-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb Diesel Range Organics		<50.0 <50.0	1000 1000	991 1110	99 111	996 1090	100 109	70-135 70-135	1 2	35 35	mg/kg	05.14.2020 09:59 05.14.2020 09:59	
Surrogate	(DKO)	×30.0 MB %Rec	MB Flag	L	CS Rec	LCS Flag	LCSI %Re) LCS	D Li	imits	mg/kg Units	Analysis Date	
1-Chlorooctane		135		1	23		122		70	-135	%	05.14.2020 09:59	
o-Terphenyl		135		1	24		121		70	-135	%	05.14.2020 09:59	
Analytical Method: Seq Number:	TPH by SV 3125908	V8015 M	od		Matrix:				Pi	rep Metho Date Pro		8015P 3.2020	
				MB Sar	nple Id:	7703305-	I-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	05.13.2020 12:23	

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

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

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Final 1.000
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QC Summary 661296

Prep Method: SW8015P

LT Environmental, Inc.

Phantom Banks 25-25-30

Seq Number:	3125908]	Matrix:	Soil				Date Pr	ep: 05.1	13.2020	
Parent Sample Id:	661180-00)1	MS Sample Id: 661180-001 S						MS	MSD Sample Id: 661180-001 SD			
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocar	bons (GRO)	< 50.1	1000	1010	101	1040	104	70-135	3	35	mg/kg	05.13.2020 23:07	
Diesel Range Organics	(DRO)	1090	1000	2130	104	2300	121	70-135	8	35	mg/kg	05.13.2020 23:07	
Surrogate					IS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	23		122	!	70	-135	%	05.13.2020 23:07	
o-Terphenyl				1	07		110)	70	-135	%	05.13.2020 23:07	

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5035A	
Seq Number:	3125867	: Solid Date Prep: 05.12.2020										
MB Sample Id:	7703235-1-BLK		LCS San	nple Id:	7703235-	1-BKS		LCS	D Sample	e Id: 770	3235-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.111	111	0.103	103	70-130	7	35	mg/kg	05.12.2020 23:25	
Toluene	< 0.00200	0.100	0.106	106	0.0977	98	70-130	8	35	mg/kg	05.12.2020 23:25	
Ethylbenzene	< 0.00200	0.100	0.0993	99	0.0915	92	71-129	8	35	mg/kg	05.12.2020 23:25	
m,p-Xylenes	< 0.00400	0.200	0.201	101	0.185	93	70-135	8	35	mg/kg	05.12.2020 23:25	
o-Xylene	< 0.00200	0.100	0.103	103	0.0947	95	71-133	8	35	mg/kg	05.12.2020 23:25	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	107		1	04		104		70	-130	%	05.12.2020 23:25	
4-Bromofluorobenzene	96		ç	92		94		70	-130	%	05.12.2020 23:25	

Analytical Method:	BTEX by EPA 8021	lB						Pi	rep Metho	od: SW	5035A	
Seq Number:	3125867	3125867 Matrix:							Date Pr	ep: 05.1	12.2020	
Parent Sample Id:	661298-001		MS Sar	nple Id:	661298-00	01 S		MS	D Sample	e Id: 661	298-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.104	104	0.0971	97	70-130	7	35	mg/kg	05.13.2020 00:06	
Toluene	< 0.00200	0.0998	0.0970	97	0.0929	93	70-130	4	35	mg/kg	05.13.2020 00:06	
Ethylbenzene	< 0.00200	0.0998	0.0887	89	0.0850	85	71-129	4	35	mg/kg	05.13.2020 00:06	
m,p-Xylenes	< 0.00399	0.200	0.178	89	0.173	86	70-135	3	35	mg/kg	05.13.2020 00:06	
o-Xylene	< 0.00200	0.0998	0.0911	91	0.0879	88	71-133	4	35	mg/kg	05.13.2020 00:06	
Surrogate				1S Rec	MS Flag	MSD %Red			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		103		70	-130	%	05.13.2020 00:06	

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

4-Bromofluorobenzene

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

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

100

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

.

05.13.2020 00:06

Page 16 of 18

94

70-130

%

	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	BHOI BHOI BHOI BHOI BHOI	Project Number: Project Number: Sampler's Name: SAMPLE RECEIPT Temperature (°C): Received Intact: Cooler Custody Seals: Sample Custody Seals: Yes Sample Identification		ate ZIP:		Company Name: LT Enviro	NX (
ce: Signature of this document and relinquishment o ervice. Xenco will be liable only for the cost of sampl enco. A minimum charge of \$75.00 will be applied to Relinquished by: (Signature)	200.8 / 6020: Metai(s) to be an	5 6 10 5	Temp Blan Temp Blan 4 . O ver No ss Mo N/A	Banks 25-	Midland, TX 79705 (432) 236-3849	3300 North A Street	LT Environmental, Inc., Permian office	BORATORIES
r samples constitute es and shall not ass each project and a o Received by:	8RCRA alyzed TCL		Corrr Corrr Tota	-25-30			Permian office	Hobbs, NM
issume any respons charge of \$5 for c (Signature)	CRA 13PPM Texas 11 AI	1230 1, 1142 1, 1142 1, 1142 1,	Routine Rush: Rush: Due Date: Thermometer ID Thermometer ID Correction Factor: Total Containers: Total Containers:	Turn Around	Email: slo@			Houston,TX (28 Midland,TX (4 1 (575-392-7550) Rill tr
ach sample subn	Texas 11 Al		Number of Containers	_	City, State ZIP: slo@ltenv.com, dn	'ess:	Company Name:	C TX (281) 240-4200 D; TX (432-704-5440) E 7550) Phoenix,AZ (48 Rill to: (if different)
Int company to Xenco, its sees or expenses incurre nitted to Xenco, but not a Date/Time $\int (2/10 \ 14:0)$	Sb As Ba Be		TPH (EPA 8015) BTEX (EPA 0=8021) Chloride (EPA 300.0)		Carlsbad, NM 88220 dmoir@ltenv.com	3104 East Green Street	XTO Energy	Chain of Custody Dallas,TX (214) 902-0300 San Antonio,T EL Paso,TX (915)585-3443 Lubbock,T) (480-355-0900) Atlanta,GA (770-449-880 KMe Littrell
otice: 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 condutons it service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: Received by: (Signature) W Yanco Signature) Signature) Relinquished by: (Signature) Received by: Received by: (Signature) Yanco Signature) Signature) Signature) Signature) Received by: Received by: (Signature)	Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn N Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag			ANALYSIS REQUEST	220	Street		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) Rill for .if different) KMe Littrell
ure) Received by: (Signature)	g SiO			IST	Deliverables: EDD ADaPT	State of Project:		w Vo
lture) Date/Time	SiO2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg		TAT starts the day received by the lab, if received by 4:30pm	Work Order Notes	Other:		PRP Brownfields RRC Duperfund	w <u>xenco.com</u> Page 1 of

Released to Imaging: 9/8/2021 2:42:16 PM

Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC							
Date/ Time Received: 05.12.2020 02.00.00 PM	Air and Metal samples Acceptable Range: Ambient							
Work Order #: 661296	Temperature Measuring device used : T-NM-007							
Sample Rec	eipt Checklist	Comments						
#1 *Temperature of cooler(s)?	4							
#2 *Shipping container in good condition?	Yes							
#3 *Samples received on ice?	Yes							
#4 *Custody Seals intact on shipping container/ cooler?	Yes							
#5 Custody Seals intact on sample bottles?	Yes							
#6*Custody Seals Signed and dated?	Yes							
#7 *Chain of Custody present?	Yes							
#8 Any missing/extra samples?	No							
#9 Chain of Custody signed when relinquished/ received?	Yes							
#10 Chain of Custody agrees with sample labels/matrix?	Yes							
#11 Container label(s) legible and intact?	Yes							
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.						
#13 Samples properly preserved?	Yes							
#14 Sample container(s) intact?	Yes							
#15 Sufficient sample amount for indicated test(s)?	Yes							
#16 All samples received within hold time?	Yes							
#17 Subcontract of sample(s)?	No							
#18 Water VOC samples have zero headspace?	N/A							

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 05.12.2020

Checklist reviewed by: fession Whamen Jessica Kramer

Date: 05.14.2020



Project Id: 012920072

Contact: Dan Moir

Project Location:

Certificate of Analysis Summary 661296

LT Environmental, Inc., Arvada, CO

Project Name: Phantom Banks 25-25-30

 Date Received in Lab:
 Tue 05.12.2020 14:00

 Report Date:
 05.15.2020 15:54

Project Manager: Jessica Kramer

	Lab Id:	661296-0	001	661296-0	02	661296-0	003	661296-	004	
Analysis Requested	Field Id:	BH01	BH01			BH03		BH04		
Analysis Kequestea	Depth:	1- ft				1- ft		1- ft		
	Matrix:	SOIL	SOIL			SOIL		SOIL		
	Sampled:	05.11.2020	11:15	05.11.2020	11:45	05.11.2020	12:30	05.11.2020	15:50	
BTEX by EPA 8021B	Extracted:	05.12.2020	14:21	05.12.2020	14:21	05.12.2020	14:21	05.12.2020	14:21	
	Analyzed:	05.13.2020	15:17	05.13.2020	15:37	05.13.2020	14:56	05.13.2020	09:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.0250	0.0250	< 0.0500	0.0500	< 0.00260	0.00260	< 0.00200	0.00200	
Toluene		0.0480	0.0250	3.94	0.200	< 0.00260	0.00260	< 0.00200	0.00200	
Ethylbenzene		1.08	0.100	2.14	0.200	0.100	0.0104	< 0.00200	0.00200	
m,p-Xylenes		0.952	0.200	4.55	0.400	0.182	0.0208	< 0.00399	0.00399	
o-Xylene		6.12	0.100	7.13	0.200	0.485	0.0104	< 0.00200	0.00200	
Total Xylenes		7.07	0.100	11.7	0.200	0.667	0.0104	< 0.00200	0.00200	
Total BTEX		8.20	0.0250	17.8	0.0500	0.767	0.00260	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	05.12.2020	17:00	05.12.2020	17:00	05.12.2020	17:00	05.12.2020	17:00	
	Analyzed:	05.13.2020	00:54	05.13.2020	01:00	05.13.2020	01:05	05.13.2020	01:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		880	9.94	196	10.0	962	9.94	124	9.98	
TPH by SW8015 Mod	Extracted:	05.13.2020	11:40	05.13.2020	11:40	05.13.2020	11:40	05.13.2020	11:40	
	Analyzed:	05.14.2020	02:34	05.14.2020	11:27	05.14.2020	03:15	05.15.2020	09:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		841	50.2	2990	502	254	50.2	<50.0	50.0	
Diesel Range Organics (DRO)		4680	50.2	15800	502	3200	50.2	<50.0	50.0	
Motor Oil Range Hydrocarbons (MRO)		371	50.2	1070	502	271	50.2	<50.0	50.0	
Total GRO-DRO		5520	50.2	18800	502	3450	50.2	<50.0	50.0	
Total TPH		5890	50.2	19900	502	3730	50.2	<50.0	50.0	

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

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

fession Vramer

Jessica Kramer Project Manager

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Analytical Report 661296

for

LT Environmental, Inc.

Project Manager: Dan Moir

Phantom Banks 25-25-30

012920072

05.15.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



05.15.2020

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

Reference: XENCO Report No(s): 661296 Phantom Banks 25- 25-30 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 XENCO Report Number(s) 661296. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 661296 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 661296

Phantom Banks 25- 25-30

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	05.11.2020 11:15	1 ft	661296-001
BH02	S	05.11.2020 11:45	1 ft	661296-002
BH03	S	05.11.2020 12:30	1 ft	661296-003
BH04	S	05.11.2020 15:50	1 ft	661296-004


CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Phantom Banks 25- 25-30

 Project ID:
 012920072

 Work Order Number(s):
 661296

 Report Date:
 05.15.2020

 Date Received:
 05.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id: BH01 Lab Sample Id: 661296-001		Matrix Date C	: Soil ollected: 05.1	1.2020 11:15		Date Received:05.12 Sample Depth: 1 ft	2.2020 14	:00
Analytical Method: Chloride by EPA	A 300					Prep Method: E300)P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Pr	rep: 05.1	2.2020 17:00		Basis: Wet	Weight	
Seq Number: 3125748								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	880	9.94		mg/kg	05.13.2020 00:54		1
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3125908	5 Mod	Date Pr	rep: 05.1	3.2020 11:40		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	841	50.2		mg/kg	05.14.2020 02:34		1
Diesel Range Organics (DRO)	C10C28DRO	4680	50.2		mg/kg	05.14.2020 02:34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	371	50.2		mg/kg	05.14.2020 02:34		1
Total GRO-DRO	PHC628	5520	50.2		mg/kg	05.14.2020 02:34		1
Total TPH	PHC635	5890	50.2		mg/kg	05.14.2020 02:34		1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	05.14.2020 02:34		
o-Terphenyl		84-15-1	116	%	70-135	05.14.2020 02:34		



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Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id: BH01 Lab Sample Id: 661296-001	Matrix: Soil Date Collected: 05.11.		ate Received:05 ample Depth: 1	5.12.2020 14:00 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB Analyst: MAB	Date Prep: 05.12.	%	rep Method: S' Moisture: asis: W	W5035A Vet Weight
Seq Number: 3125867	Date Flep: 05.12.	2020 14.21 Da	1515. •••	et weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0250	0.0250		mg/kg	05.13.2020 15:17	U	50
Toluene	108-88-3	0.0480	0.0250		mg/kg	05.13.2020 15:17		50
Ethylbenzene	100-41-4	1.08	0.100		mg/kg	05.13.2020 15:17		50
m,p-Xylenes	179601-23-1	0.952	0.200		mg/kg	05.13.2020 15:17		50
o-Xylene	95-47-6	6.12	0.100		mg/kg	05.13.2020 15:17		50
Total Xylenes	1330-20-7	7.07	0.100		mg/kg	05.13.2020 15:17		50
Total BTEX		8.20	0.0250		mg/kg	05.13.2020 15:17		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	05.13.2020 15:17		
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.13.2020 15:17		



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Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id: BH02 Lab Sample Id: 661296-002		Matrix: Date Co	Soil Soil	.2020 11:45		Date Received:05.1 Sample Depth: 1 ft	2.2020 14	:00
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	0P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Pr	rep: 05.12	.2020 17:00		Basis: Wet	t Weight	
Seq Number: 3125748			•					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	196	10.0		mg/kg	05.13.2020 01:00		1
Analytical Method: TPH by SW801: Tech: DTH Analyst: DTH Seq Number: 3125908	5 Mod	Date Pr	rep: 05.13	.2020 11:40		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Pr Result	rep: 05.13 RL	.2020 11:40	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3125908				.2020 11:40	Units mg/kg	% Moisture: Basis: Wet	t Weight	Dil 10
Tech: DTH Analyst: DTH Seq Number: 3125908 Parameter	Cas Number	Result	RL	.2020 11:40		 Moisture: Basis: Wet Analysis Date 	t Weight	
Tech: DTH Analyst: DTH Seq Number: 3125908 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 2990	RL 502	.2020 11:40	mg/kg	% Moisture: Basis: Wet Analysis Date 05.14.2020 11:27	t Weight	10
Tech: DTH Analyst: DTH Seq Number: 3125908 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 2990 15800	RL 502 502	.2020 11:40	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 05.14.2020 11:27 05.14.2020 11:27	t Weight	10 10
Tech: DTH Analyst: DTH Seq Number: 3125908 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 2990 15800 1070	RL 502 502 502	.2020 11:40	mg/kg mg/kg mg/kg	A Moisture: Basis: Wet Analysis Date 05.14.2020 11:27 05.14.2020 11:27 05.14.2020 11:27 05.14.2020 11:27 05.14.2020 11:27	t Weight	10 10 10
Tech: DTH Analyst: DTH Seq Number: 3125908 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 2990 15800 1070 18800 19900	RL 502 502 502 502 502	.2020 11:40 Units	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet 05.14.2020 11:27 05.14.2020 11:27 05.14.2020 11:27 05.14.2020 11:27 05.14.2020 11:27	t Weight	10 10 10 10

111

%

70-135

05.14.2020 11:27

84-15-1

o-Terphenyl

Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id:BH02Lab Sample Id:661296-002	Matrix: Date Collected	Soil : 05.11.2020 11:45	Date Received Sample Depth	d:05.12.2020 14:00 n: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MAB	Date Prep:	05.12.2020 14:21	Prep Method: % Moisture: Basis:	SW5035A Wet Weight
Seq Number: 3125867				

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0500	0.0500		mg/kg	05.13.2020 15:37	U	100
Toluene	108-88-3	3.94	0.200		mg/kg	05.13.2020 15:37		100
Ethylbenzene	100-41-4	2.14	0.200		mg/kg	05.13.2020 15:37		100
m,p-Xylenes	179601-23-1	4.55	0.400		mg/kg	05.13.2020 15:37		100
o-Xylene	95-47-6	7.13	0.200		mg/kg	05.13.2020 15:37		100
Total Xylenes	1330-20-7	11.7	0.200		mg/kg	05.13.2020 15:37		100
Total BTEX		17.8	0.0500		mg/kg	05.13.2020 15:37		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	05.13.2020 15:37		
1,4-Difluorobenzene		540-36-3	99	%	70-130	05.13.2020 15:37		



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id:BH03Lab Sample Id:661296-003		Matrix Date C	: Soil ollected: 05.1	1.2020 12:30		Date Received:05.1 Sample Depth: 1 ft	2.2020 14:	00
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	0P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date P	rep: 05.12	2.2020 17:00		Basis: Wet	Weight	
Seq Number: 3125748								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	962	9.94		mg/kg	05.13.2020 01:05		1
Analytical Method: TPH by SW801: Tech: DTH Analyst: DTH	5 Mod					Prep Method: SW8 % Moisture:	3015P	
Seq Number: 3125908		Date P	rep: 05.13	3.2020 11:40		Basis: Wet	Weight	
Seq Number: 3125908 Parameter	Cas Number		rep: 05.13 RL	3.2020 11:40	Units	Basis: Wet	Weight Flag	Dil
	Cas Number PHC610			3.2020 11:40	Units mg/kg		C	Dil
Parameter		Result	RL	3.2020 11:40		Analysis Date	C	
Parameter Gasoline Range Hydrocarbons (GRO)	PHC610	Result 254	RL 50.2	3.2020 11:40	mg/kg	Analysis Date 05.14.2020 03:15	C	1
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	Result 254 3200	RL 50.2 50.2	3.2020 11:40	mg/kg mg/kg	Analysis Date 05.14.2020 03:15 05.14.2020 03:15	C	1
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	Result 254 3200 271	RL 50.2 50.2 50.2	3.2020 11:40	mg/kg mg/kg mg/kg	Analysis Date 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15	C	1 1 1
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 254 3200 271 3450	RL 50.2 50.2 50.2 50.2 50.2	3.2020 11:40 Units	mg/kg mg/kg mg/kg mg/kg	Analysis Date 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15	C	1 1 1 1
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 254 3200 271 3450 3730	RL 50.2 50.2 50.2 50.2 50.2 50.2		mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15 05.14.2020 03:15	Flag	1 1 1 1



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id:BH03Lab Sample Id:661296-003	Matrix: Soil Date Collected: 05.11.20	Date Received:05.12.20220 12:30Sample Depth: 1 ft	0 14:00
Analytical Method: BTEX by EPA 8021B Tech: MAB		Prep Method: SW5035A % Moisture:	L
Analyst: MAB Seq Number: 3125867	Date Prep: 05.12.20	20 14:21 Basis: Wet Weig	ht

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00260	0.00260		mg/kg	05.13.2020 14:56	U	1
Toluene	108-88-3	< 0.00260	0.00260		mg/kg	05.13.2020 14:56	U	1
Ethylbenzene	100-41-4	0.100	0.0104		mg/kg	05.13.2020 14:56		1
m,p-Xylenes	179601-23-1	0.182	0.0208		mg/kg	05.13.2020 14:56		1
o-Xylene	95-47-6	0.485	0.0104		mg/kg	05.13.2020 14:56		1
Total Xylenes	1330-20-7	0.667	0.0104		mg/kg	05.13.2020 14:56		1
Total BTEX		0.767	0.00260		mg/kg	05.13.2020 14:56		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.13.2020 14:56		
1,4-Difluorobenzene		540-36-3	96	%	70-130	05.13.2020 14:56		



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id: BH04 Lab Sample Id: 661296-004		Matrix: Date Colle	Soil cted: 05.11.2020 15:50		Date Received Sample Depth		14:00
Analytical Method: Chloride by EPA Tech: MAB Analyst: MAB Seq Number: 3125748	300	Date Prep:	05.12.2020 17:00		Prep Method: % Moisture: Basis:	E300P Wet Weigh	ıt
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride	16887-00-6	124	9.98	mg/kg	05.13.2020 01	1:11	1

Analytical Method: TPH by SW801	15 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 05	.13.2020 11:40		Basis: W	/et Weight	
Seq Number: 3125908								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	05.15.2020 09:4	1 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	05.15.2020 09:4	1 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	05.15.2020 09:4	1 U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	05.15.2020 09:4	1 U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	05.15.2020 09:4	1 U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	109	%	70-135	05.15.2020 09	:41	

115

%

70-135

84-15-1

o-Terphenyl

.

05.15.2020 09:41



Certificate of Analytical Results 661296

LT Environmental, Inc., Arvada, CO

Phantom Banks 25- 25-30

Sample Id:BH04Lab Sample Id:661296-004	Matrix: Date Collect	Soil ed: 05.11.2020 15:50	Date Receive Sample Dept	d:05.12.2020 14:00 h: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method % Moisture:	: SW5035A
Analyst: MAB Seq Number: 3125867	Date Prep:	05.12.2020 14:21	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	05.13.2020 09:50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.13.2020 09:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	05.13.2020 09:50		
4-Bromofluorobenzene		460-00-4	105	%	70-130	05.13.2020 09:50		

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

** Surrogate recovered outside laboratory control limit.

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

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



QC Summary 661296

LT Environmental, Inc.

Phantom Banks 25-25-30

Analytical Method: Seq Number: MB Sample Id:	Chloride b 3125748 7703192-1-	BLK		LCS Sar	-	7703192-			LCS	-	ep: 05.1 e Id: 770	2.2020 3192-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	251	100	250	100	90-110	0	20	mg/kg	05.12.2020 22:33	
Analytical Method: Seq Number:	Chloride b 3125748 661220-014	-)0		Matrix:	Soil 661220-0	14 5			rep Metho Date Pro	ep: 05.1	0P 2.2020 220-014 SD	
Parent Sample Id:	001220-014	Parent	C-11-0	MS Sal	mpie iu. MS			Limits	%RPD	RPD Sample	Units		
Parameter		Result	Spike Amount	Result	%Rec	MSD Result	MSD %Rec	Linnts	70 KF D	Limit	Omts	Analysis Date	Flag
Chloride		55.9	200	251	98	253	98	90-110	1	20	mg/kg	05.12.2020 22:50	
Analytical Method: Seq Number: Parent Sample Id:	Chloride b 3125748 661295-003	-	00		Matrix: nple Id:	Soil 661295-00)3 S			rep Metho Date Pro D Sample	ep: 05.1	0P 2.2020 295-003 SD	
		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Parameter Chloride		Result 1150	Amount 201	Result 1330	%Rec 90	Result 1350	%Rec 99	90-110	1	Limit 20	mg/kg	Date 05.13.2020 00:13	Flag
Analytical Method: Seq Number:	TPH by SV 3125908	V8015 M	od		Matrix:	Solid			Pr	rep Metho Date Pro		8015P 3.2020	
MB Sample Id:	7703305-1-	BLK		LCS Sar	nple Id:	7703305-	I-BKS		LCS	D Sample	e Id: 770	3305-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb Diesel Range Organics		<50.0 <50.0	1000 1000	991 1110	99 111	996 1090	100 109	70-135 70-135	1 2	35 35	mg/kg	05.14.2020 09:59 05.14.2020 09:59	
Surrogate	(DKO)	×30.0 MB %Rec	MB Flag	L	CS Rec	LCS Flag	LCSI %Re) LCS	D Li	imits	mg/kg Units	Analysis Date	
1-Chlorooctane		135		1	23		122		70	-135	%	05.14.2020 09:59	
o-Terphenyl		135		1	24		121		70	-135	%	05.14.2020 09:59	
Analytical Method: Seq Number:	TPH by SV 3125908	V8015 M	od		Matrix:				Pi	rep Metho Date Pro		8015P 3.2020	
				MB Sar	nple Id:	7703305-	I-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	05.13.2020 12:23	

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

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

.

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QC Summary 661296

Prep Method: SW8015P

LT Environmental, Inc.

Phantom Banks 25-25-30

Seq Number:	3125908			1	Matrix:	Soil				Date Pr	ep: 05.1	3.2020	
Parent Sample Id:	661180-00	1		MS San	nple Id:	661180-00	01 S		MS	D Sample	e Id: 661	180-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocar	bons (GRO)	< 50.1	1000	1010	101	1040	104	70-135	3	35	mg/kg	05.13.2020 23:07	
Diesel Range Organics	(DRO)	1090	1000	2130	104	2300	121	70-135	8	35	mg/kg	05.13.2020 23:07	
Surrogate					IS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1-Chlorooctane				12	23		122	!	70	-135	%	05.13.2020 23:07	
o-Terphenyl				10	07		110)	70	-135	%	05.13.2020 23:07	

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5035A	
Seq Number:	3125867]	Matrix:	Solid				Date Pr	ep: 05.1	12.2020	
MB Sample Id:	7703235-1-BLK		LCS San	nple Id:	7703235-	1-BKS		LCS	D Sample	e Id: 770	3235-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.111	111	0.103	103	70-130	7	35	mg/kg	05.12.2020 23:25	
Toluene	< 0.00200	0.100	0.106	106	0.0977	98	70-130	8	35	mg/kg	05.12.2020 23:25	
Ethylbenzene	< 0.00200	0.100	0.0993	99	0.0915	92	71-129	8	35	mg/kg	05.12.2020 23:25	
m,p-Xylenes	< 0.00400	0.200	0.201	101	0.185	93	70-135	8	35	mg/kg	05.12.2020 23:25	
o-Xylene	< 0.00200	0.100	0.103	103	0.0947	95	71-133	8	35	mg/kg	05.12.2020 23:25	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	107		1	04		104		70	-130	%	05.12.2020 23:25	
4-Bromofluorobenzene	96		9	02		94		70	-130	%	05.12.2020 23:25	

Analytical Method: Seq Number:	BTEX by EPA 8021 3125867	lB		Matrix:	Soil			P	rep Meth Date Pr		5035A 12.2020	
Parent Sample Id:	661298-001		MS Sar	nple Id:	661298-00	01 S		MS	D Sample	e Id: 661	298-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.104	104	0.0971	97	70-130	7	35	mg/kg	05.13.2020 00:06	
Toluene	< 0.00200	0.0998	0.0970	97	0.0929	93	70-130	4	35	mg/kg	05.13.2020 00:06	
Ethylbenzene	< 0.00200	0.0998	0.0887	89	0.0850	85	71-129	4	35	mg/kg	05.13.2020 00:06	
m,p-Xylenes	< 0.00399	0.200	0.178	89	0.173	86	70-135	3	35	mg/kg	05.13.2020 00:06	
o-Xylene	< 0.00200	0.0998	0.0911	91	0.0879	88	71-133	4	35	mg/kg	05.13.2020 00:06	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		103		70	-130	%	05.13.2020 00:06	

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

4-Bromofluorobenzene

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

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

100

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

.

05.13.2020 00:06

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94

70-130

%

Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200	BH23 BH24	BHe 1 BHo 2	Sample Identification	Project Name: TM4 M To Inst OI 129 Project Number: OI 129 P.O. Number: Sampler's Name: Sampler's Name: Temperature (°C): Temperature (°C): Yes Cooler Custody Seals: Yes Sample Custody Seals: Yes		Phone: (432) 236-3849	Address: 3300 North A Street		Project Manager: Dan Moir	XENCO
ce: Signature of this document and relinquishment of ervice. Xenco will be liable only for the cost of samplenco. A minimum charge of \$75.00 will be applied to Relinquished by: (Signature)	200.8 / 6020: Metal(s) to be an	5 6	S S	Matrix	Spence Spence Blan Temp Blan L4 No No NiA NiA NiA	R 1- 75-	3849	X 79705	LT Environmental, Inc., Permian office		
r samples constitute les and shall not ass each project and a of Received by:	alyzed TCL	5-11-20	5.11.20	Date Sampled	Corrr Tota	25.2			Permian offic		Hobbs, N
a charge of \$5 for y: (Signature)	RA 13PPM	1230	1145	Time Sampled		Turn	Email: slo	0. 4		Bi	Houston,TX Midland,TX M (575-392-755
hase order from onsibility for any or each sample s	CRA 13PPM Texas 11 AI	1.	11	Depth	H L Dort	Around	slo@ltenv.com,	City, State ZIP:	Company Name:	Bill to: (if different)	(281) 240-4200 ((432-704-5440 () Phoenix, AZ
client company to X rosses or expenses ubmitted to Xenco, t Date/Time 5)(2/20	Al Sb As	 * ×	x	TPH (I	(EPA 8015)		dmoir@ltenv.com	Carlsbad		Kyle Littrell	Chain of Custody Dallas,TX (214) 902-0300 San Antonio,T D) EL Paso,TX (915)585-3443 Lubbock,T) (480-355-0900) Atlanta,GA (770-449-880
o Xenco, its af ises incurred b co, but not ana me 14:00 2 4	Ba Be B	**	* * *		X (EPA 0=8021) oride (EPA 300.0)		com	Carlsbad, NM 88220	ergy	ell	of Cu 4) 902-0300 (915)585-344) Atlanta,GA
filiates and subcontractors. It assigns s yy the client if such losses are due to cir lyzed. These terms will be enforced unle Relinquished by: (Signature)	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag					ANALYSIS REQUEST			pot		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)
otice: 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 r service. 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. Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Market Signature Signature Signature Signature Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature) Signature) Relinquished by: (Signature) Received by: (Signature) Market Signature Signature) Signature Signature) Received by: (Signature)	Pb Mg Mn Mo Ni K Se Ag					EST	Deliverables: EDD	Reporting:Level II _evel III _ST/UST	State of Project:		
(Signature)	g SiO2 Na Sr 1631 / 24			Sa	TAT sta	v	ADaPT	-	PRP Brownfields RRC	Work Order Comments	Work Order No:
Date/Time	TI Sn U V Zn 5.1 / 7470 / 7471 : Hg			Sample Comments	TAT starts the day received by the lab, if received by 4:30pm	Work Order Notes	Other:		KRC Dupertund		1 1 of

Released to Imaging: 9/8/2021 2:42:16 PM

Final 1.001

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 05.12.2020 02.00.00 PM	Air and Metal samples Acc	ceptable Range: Ambient
Work Order #: 661296	Temperature Measuring de	evice used : T-NM-007
Sample Rece	ipt Checklist	Comments
#1 *Temperature of cooler(s)?	4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Date: 05.12.2020

Checklist reviewed by: fession Whamen Jessica Kramer

Date: 05.14.2020



Project Id: 012920072 Dan Moir

Contact:

Project Location:

Certificate of Analysis Summary 664078

LT Environmental, Inc., Arvada, CO

Project Name: Phantom Banks 25-25-30

Date Received in Lab: Wed 06.10.2020 14:30 Report Date: 06.12.2020 08:37

Project Manager: Jessica Kramer

	Lab Id:	664078-001			
An alugia Dogwootod	Field Id:	PH01			
Analysis Requested	Depth:	2- ft			
	Matrix:	SOIL			
	Sampled:	06.10.2020 10:45			
BTEX by EPA 8021B	Extracted:	06.10.2020 17:10			
	Analyzed:	06.11.2020 00:27			
	Units/RL:	mg/kg RL			
Benzene		<0.00198 0.00198			
Toluene		<0.00198 0.00198			
Ethylbenzene		<0.00198 0.00198			
m,p-Xylenes		<0.00396 0.00396			
o-Xylene		<0.00198 0.00198			
Total Xylenes		<0.00198 0.00198			
Total BTEX		<0.00198 0.00198			
Chloride by EPA 300	Extracted:	06.10.2020 17:38			
	Analyzed:	06.10.2020 21:17			
	Units/RL:	mg/kg RL			
Chloride		25.6 9.96			
TPH by SW8015 Mod	Extracted:	06.10.2020 17:00			
	Analyzed:	06.10.2020 17:20			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1			
Diesel Range Organics (DRO)		<50.1 50.1			
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1			
Total GRO-DRO		<50.1 50.1			
Total TPH		<50.1 50.1			

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

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

fession kramer

Jessica Kramer Project Manager

Final 1.000



Analytical Report 664078

for

LT Environmental, Inc.

Project Manager: Dan Moir

Phantom Banks 25-25-30

012920072

06.12.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

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



06.12.2020

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

Reference: XENCO Report No(s): 664078 Phantom Banks 25-25-30 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 XENCO Report Number(s) 664078. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 664078 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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



Sample Id PH01

LT Environmental, Inc., Arvada, CO

Phantom Banks 25-25-30

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	06.10.2020 10:45	2 ft	664078-001



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Phantom Banks 25-25-30

 Project ID:
 012920072

 Work Order Number(s):
 664078

 Report Date:
 06.12.2020

 Date Received:
 06.10.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 664078

LT Environmental, Inc., Arvada, CO

Phantom Banks 25-25-30

Sample Id:	PH01		Matrix:	Soil		Date Received:0	6.10.2020 14	:30
Lab Sample I	d: 664078-001		Date Col	llected: 06.10.2020 10:4	45	Sample Depth: 2	£ ft	
Analytical M	ethod: Chloride by EP	A 300				Prep Method: E	E300P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Pre	p: 06.10.2020 17:3	38	Basis: V	Vet Weight	
Seq Number:	3128599							
Parameter		Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
Chloride		16887-00-6	25.6	9.96	mg/kg	06.10.2020 21:1	7	1

Analytical Method: TPH by SW801	5 Mod					Prep Method: SV	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 06	.10.2020 17:00		Basis: W	et Weight	
Seq Number: 3128592								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	06.10.2020 17:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	06.10.2020 17:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	06.10.2020 17:20	U	1
Total GRO-DRO	PHC628	<50.1	50.1		mg/kg	06.10.2020 17:20	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	06.10.2020 17:20	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane		111-85-3	94	%	70-135	06.10.2020 17:	20	
o-Terphenyl		84-15-1	92	%	70-135	06.10.2020 17:	20	

Certificate of Analytical Results 664078

LT Environmental, Inc., Arvada, CO

Phantom Banks 25-25-30

Sample Id: PH01 Lab Sample Id: 664078-001	Matrix: Date Collec	Soil eted: 06.10.2020 10:45	Date Recei Sample De	ved:06.10.2020 14:30 pth: 2 ft
Analytical Method: BTEX by Tech: MAB	EPA 8021B		Prep Metho % Moisture	od: SW5035A
Analyst: MAB Seq Number: 3128596	Date Prep:	06.10.2020 17:10	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	06.11.2020 00:27	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	06.11.2020 00:27	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	06.11.2020 00:27	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	06.11.2020 00:27	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	06.11.2020 00:27	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	06.11.2020 00:27	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	06.11.2020 00:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	06.11.2020 00:27		
1,4-Difluorobenzene		540-36-3	110	%	70-130	06.11.2020 00:27		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

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



QC Summary 664078

LT Environmental, Inc.

Phantom Banks 25-25-30

					Phante	om Banks	\$ 25-25-	30					
Analytical Method: Seq Number:	Chloride b 3128599	oy EPA 30	00		Matrix:	Solid			Pı	rep Meth Date Pr		00P 10.2020	
MB Sample Id:	7705196-1	-BLK		LCS San	nple Id:	7705196-	1-BKS		LCS	D Sample	e Id: 770	5196-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	252	101	255	102	90-110	1	20	mg/kg	06.10.2020 20:35	
Analytical Mathady	Chlorido k	TEDA 2	00						D	ran Math	od: E30	NOP	
Analytical Method: Seq Number:	Chloride k 3128599	JY EFA 50	00		Matrix:	Soil			PI	rep Meth Date Pr		10.2020	
Parent Sample Id:	664077-00	1				664077-00	01 S		MS			077-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		282	201	475	96	475	96	90-110	0	20	mg/kg	06.10.2020 20:56	
Analytical Method: Seq Number: MB Sample Id:	TPH by S 3128592 7705214-1		od	LCS San	Matrix: nple Id:	Solid 7705214-	1-BKS		LCS	-	ep: 06.	8015P 10.2020 5214-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	1070	107	1070	7 6 Kec 107	70-135	0	35	mg/kg	06.10.2020 12:50	
Diesel Range Organics	(DRO)	<50.0	1000	1140	114	1140	114	70-135	0	35	mg/kg	06.10.2020 12:50	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl		122 122			30 23		128 122			-135 -135	% %	06.10.2020 12:50 06.10.2020 12:50	
Analytical Method: Seq Number:	TPH by S 3128592	W8015 M	od		Matrix: nple Id:	Solid 7705214-	1-BLK		Pı	rep Meth Date Pr		8015P 10.2020	
Parameter				MB Bogult							Units	Analysis	Flag
Motor Oil Range Hydrocar	bons (MRO)			Result <50.0							mg/kg	Date 06.10.2020 12:30	
Analytical Method: Seq Number:	TPH by S 3128592	W8015 M	od		Matrix:	Soil			Pr	rep Meth Date Pr		8015P 10.2020	
Parent Sample Id:	664078-00	1				664078-00	01 S		MS		-	078-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb		<50.3	1010	1060	105	974	97	70-135	8	35	mg/kg	06.10.2020 17:40	
Diesel Range Organics	(DRO)	<50.3	1010	1170	116	1080	108	70-135	8	35	mg/kg	06.10.2020 17:40	
Surrogate					1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane					23 06		114			-135	%	06.10.2020 17:40 06.10.2020 17:40	
o-Terphenyl				1	06		102		/0	-135	%	00.10.2020 17:40	
MS/MSD Percent Recover Relative Percent Difference LCS/LCSD Recovery Log Difference	xe R	D] = 100 * (0)	(C-E) / (C+E)		(Original S	Sample)	A C	CS = Labora = Parent Re = MS/LCS = MSD/LC	esult Result		$\mathbf{B} = \mathbf{S}$	Matrix Spike pike Added SD/LCSD % Rec	

Page 9 of 12



QC Summary 664078

LT Environmental, Inc.

Phantom Banks 25-25-30

Analytical Method:	BTEX by EPA 8021	lB						Р	rep Meth	od: SW	5035A	
Seq Number:	3128596			Matrix:	Solid				Date Pr	ep: 06.1	0.2020	
MB Sample Id:	7705213-1-BLK		LCS San	nple Id:	7705213-	1-BKS		LCS	D Sampl	e Id: 770	5213-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.102	102	0.106	106	70-130	4	35	mg/kg	06.11.2020 07:56	
Toluene	< 0.00200	0.100	0.0962	96	0.102	102	70-130	6	35	mg/kg	06.11.2020 07:56	
Ethylbenzene	< 0.00200	0.100	0.0906	91	0.0958	96	71-129	6	35	mg/kg	06.11.2020 07:56	
m,p-Xylenes	< 0.00400	0.200	0.185	93	0.198	99	70-135	7	35	mg/kg	06.11.2020 07:56	
o-Xylene	< 0.00200	0.100	0.0954	95	0.101	101	71-133	6	35	mg/kg	06.11.2020 07:56	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	112		1	07		107		70	-130	%	06.11.2020 07:56	
4-Bromofluorobenzene	99		ç	94		91		70	-130	%	06.11.2020 07:56	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3128596 664078-001	B		Matrix: nple Id:	Soil 664078-00)1 S			rep Metho Date Pro D Sample	ep: 06.1	5035A 10.2020 078-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.112	112	0.117	116	70-130	4	35	mg/kg	06.10.2020 23:26	
Toluene	< 0.00199	0.0996	0.103	103	0.109	108	70-130	6	35	mg/kg	06.10.2020 23:26	
Ethylbenzene	< 0.00199	0.0996	0.0943	95	0.102	101	71-129	8	35	mg/kg	06.10.2020 23:26	
m,p-Xylenes	< 0.00398	0.199	0.193	97	0.209	104	70-135	8	35	mg/kg	06.10.2020 23:26	
o-Xylene	< 0.00199	0.0996	0.0992	100	0.107	106	71-133	8	35	mg/kg	06.10.2020 23:26	
Surrogate				IS Rec	MS Flag	MSD %Red			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	05		108		70	-130	%	06.10.2020 23:26	
4-Bromofluorobenzene			ç	94		94		70	-130	%	06.10.2020 23:26	

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

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

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Page 10 of 12

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17		ice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractions is and subcontractions in the same interview of the same i	company to Xenco. its affiliates and subco	ase order from client	nples constitutes a valid purch	nent and relinquishment of sam	Convice: Signature of this documents of the second	2 21
Sr TI Sn U V Zn	Mo Ni K Se Ag SiO2 Na	o Cu Fe Pb	Sb As Ba Be B	Texas 11 AI	였	Circle Method(s) and Metal(s) to be analyzed	4 Circle Method(s) a	010
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Sample Comments			TPH BTE	Depth	d S	mauly		
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				s) No	Yes) No Wet Ice:	Temp Blank:	SAMPLE RECEIPT	
)ate:		Spencer Lo	Sampler's Name:	
					Rush:		P.O. Number:	
Work Order Notes		ANALTSIS REQUEST			Routine	012920072	Project Number:	
Uther:				Turn Around	15-25-30 Tu	thantom Banks	Project Name:	
E			Email: slo@ttenv.com, dmoir@ttenv.com	slo@ltenv.com,	Email:	(432) 236-3849	Filone:	
]			Carlsbad, NM 88220	City, State ZIP:		Midland, TX 79705	ate ZIP:	
Ids RRC Duperfund	State of Project:			Address:		3300 North A Street		
nments	Work Urder Comments			Company Name:	Permian office	LT Environmental, Inc., Permian office	/ Name:	
rage 1 of 1	W		Kyle Littrell	Bill to: (if different)		Dan Moir	Compositivitager:	72
-		Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa FI (813-620-2000)	(480-355-0900) Atlar	-7550) Phoenix,AZ	Hobbs,NM (575-392		Droinot	
Leleyot8	Work Order No: 10104078	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) FI Page TX (945665 242 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Viland, TX (332-704-5440) EL Paso TY /045/565 2442 United	,TX (281) 240-4200 d,TX (432-704-5440	Houston		169 of	100 0
		Custoda	Chain of)	100
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Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 06.10.2020 02.30.00 PM	Air and Metal samples Acc	ceptable Range: Ambient
Work Order #: 664078	Temperature Measuring de	evice used : T-NM-007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Sample received in bulk container.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Warmer

Date: 06.10.2020

Jessica Kramer

Date: 06.11.2020



Project Id: 012920072 Dan Moir

Contact:

Project Location:

Certificate of Analysis Summary 664082

LT Environmental, Inc., Arvada, CO

Project Name: Phantom Banks 25-25-30

Date Received in Lab: Wed 06.10.2020 14:30 Report Date: 06.12.2020 08:36

Project Manager: Jessica Kramer

	Lab Id:	664082-001			
An alugia Deguested	Field Id:	PH01A			
Analysis Requested	Depth:	4- ft			
	Matrix:	SOIL			
	Sampled:	06.10.2020 11:15			
BTEX by EPA 8021B	Extracted:	06.10.2020 17:10			
	Analyzed:	06.11.2020 01:08			
	Units/RL:	mg/kg RL			
Benzene		<0.00201 0.00201			
Toluene		<0.00201 0.00201			
Ethylbenzene		<0.00201 0.00201			
m,p-Xylenes		<0.00402 0.00402			
o-Xylene		<0.00201 0.00201			
Total Xylenes		<0.00201 0.00201			
Total BTEX		<0.00201 0.00201			
Chloride by EPA 300	Extracted:	06.10.2020 16:44			
	Analyzed:	06.10.2020 17:48			
	Units/RL:	mg/kg RL			
Chloride		18.2 10.1			
TPH by SW8015 Mod	Extracted:	06.10.2020 17:00			
	Analyzed:	06.10.2020 17:20			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1			
Diesel Range Organics (DRO)		<50.1 50.1			
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1			
Total GRO-DRO		<50.1 50.1			
Total TPH		<50.1 50.1			

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

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

fession kramer

Jessica Kramer Project Manager

Page 1 of 12



Analytical Report 664082

for

LT Environmental, Inc.

Project Manager: Dan Moir

Phantom Banks 25-25-30

012920072

06.12.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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06.12.2020

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

Reference: XENCO Report No(s): 664082 Phantom Banks 25-25-30 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 XENCO Report Number(s) 664082. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 664082 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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



Sample Id PH01A

LT Environmental, Inc., Arvada, CO

Phantom Banks 25-25-30

l	Matrix	Date Collected	Sample Depth	Lab Sample Id
	S	06.10.2020 11:15	4 ft	664082-001



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Phantom Banks 25-25-30

 Project ID:
 012920072

 Work Order Number(s):
 664082

 Report Date:
 06.12.2020

 Date Received:
 06.10.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



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LT Environmental, Inc., Arvada, CO

Phantom Banks 25-25-30

Sample Id: PH01A Lab Sample Id: 664082-001		Matrix: Date Col	Soil lected: 06.10.2020 11:1	5	Date Received:0 Sample Depth: 4		:30
Analytical Method: Chloride by I Tech: MAB	EPA 300				Prep Method: E % Moisture:	2300P	
Analyst: MAB		Date Prep	p: 06.10.2020 16:4	4	Basis: W	Vet Weight	
Seq Number: 3128567							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.2	10.1	mg/kg	06.11.2020 10:2	2	1

Analytical Method: TPH by SW801	15 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	rep: 06.	10.2020 17:00		Basis: W	Vet Weight	
Seq Number: 3128604								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	06.10.2020 17:2	0 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	06.10.2020 17:2	0 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	06.10.2020 17:2	0 U	1
Total GRO-DRO	PHC628	<50.1	50.1		mg/kg	06.10.2020 17:2	0 U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	06.10.2020 17:2	0 U	1
Surrogate	C	as Number	% Recovery	Units	Limits	s Analysis Da	te Flag	

82

75

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

70-135

70-135

%

%

06.10.2020 17:20

06.10.2020 17:20

Certificate of Analytical Results 664082

LT Environmental, Inc., Arvada, CO

Phantom Banks 25-25-30

Sample Id: 1 Lab Sample Id: 6	PH01A 664082-001	Matrix: Date Collected	Soil : 06.10.2020 11:15	Date Received Sample Depth:	:06.10.2020 14:30 4 ft
5	od: BTEX by EPA 8021B IAB			Prep Method: % Moisture:	SW5035A
Analyst: M Seq Number: 3	1AB 128596	Date Prep:	06.10.2020 17:10	Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.11.2020 01:08	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.11.2020 01:08	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.11.2020 01:08	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.11.2020 01:08	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.11.2020 01:08	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.11.2020 01:08	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.11.2020 01:08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	06.11.2020 01:08		
1,4-Difluorobenzene		540-36-3	111	%	70-130	06.11.2020 01:08		

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

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



QC Summary 664082

LT Environmental, Inc.

Phantom Banks 25-25-30

Analytical Method: Seq Number: MB Sample Id:	Chloride by 3128567 7705194-1-1		00		Matrix: nple Id:	Solid 7705194-	1-BKS			ep Methe Date Pr D Sample	ep: 06.1	0P .0.2020 5194-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250 Amount	252	7 6 Kec 101	Result 254	%Rec 102	90-110	1	20	mg/kg	06.10.2020 15:23	
Analytical Method:	-	y EPA 30)0		Moteire	Soil			Pı	ep Meth			
Seq Number: Parent Sample Id:	3128567 663990-001				Matrix: nple Id:	Soil 663990-0	01 S		MS	Date Pr D Sample	-	0.2020 990-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		2020	201	2200	90	2200	89	90-110	0	20	mg/kg	06.10.2020 15:45	Х
Analytical Method: Seq Number: Parent Sample Id:	Chloride by 3128567 664083-007)0		Matrix: nple Id:	Soil 664083-00	07 S			ep Methe Date Pr D Sample	ep: 06.1	0P 0.2020 083-007 SD	
ľ	004005 007	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	171
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Chloride		2650	202	2840	94	2840	94	90-110	0	20	mg/kg	06.10.2020 18:44	
Analytical Method: Seq Number:	TPH by SW 3128604	78015 M	od		Matrix:	Solid			Pi	ep Methe Date Pr		8015P 0.2020	
MB Sample Id:	7705215-1-1	BLK		LCS Sar	nple Id:	7705215-	1-BKS		LCS	D Sample	e Id: 770	5215-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb		<50.0	1000	969	97	963	96	70-135	1	35	mg/kg	06.10.2020 12:50	
Diesel Range Organics	(DRO)	<50.0	1000	1020	102	1040	104	70-135	2	35	mg/kg	06.10.2020 12:50	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		91		1	06		103	3	70	-135	%	06.10.2020 12:50	
o-Terphenyl		93		Ģ	97		97		70	-135	%	06.10.2020 12:50	
Analytical Method: Seq Number:	TPH by SW 3128604	/8015 M	od		Matrix: nple Id:	Solid 7705215-	1-BLK		Pi	ep Metho Date Pr		8015P 0.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	06.10.2020 12:30	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

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QC Summary 664082

Prep Method: SW8015P

LT Environmental, Inc.

Phantom Banks 25-25-30

Seq Number:	3128604]	Matrix:	Soil				Date Pr	ep: 06.1	0.2020	
Parent Sample Id:	664082-001			MS San	nple Id:	664082-00	01 S		MS	D Sample	e Id: 664	082-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarl	bons (GRO)	< 50.1	1000	923	92	950	95	70-135	3	35	mg/kg	06.10.2020 17:40	
Diesel Range Organics	(DRO)	< 50.1	1000	993	99	1030	103	70-135	4	35	mg/kg	06.10.2020 17:40	
Surrogate					IS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1-Chlorooctane				9	2		95		70	-135	%	06.10.2020 17:40	
o-Terphenyl				8	30		83		70	-135	%	06.10.2020 17:40	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3128596]	Matrix:	Solid				Date Pr	ep: 06.1	0.2020	
MB Sample Id:	7705213-1-BLK		LCS San	nple Id:	7705213-	1-BKS		LCS	D Sample	e Id: 770	5213-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.102	102	0.106	106	70-130	4	35	mg/kg	06.11.2020 07:56	
Toluene	< 0.00200	0.100	0.0962	96	0.102	102	70-130	6	35	mg/kg	06.11.2020 07:56	
Ethylbenzene	< 0.00200	0.100	0.0906	91	0.0958	96	71-129	6	35	mg/kg	06.11.2020 07:56	
m,p-Xylenes	< 0.00400	0.200	0.185	93	0.198	99	70-135	7	35	mg/kg	06.11.2020 07:56	
o-Xylene	< 0.00200	0.100	0.0954	95	0.101	101	71-133	6	35	mg/kg	06.11.2020 07:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	112		1	07		107		70	-130	%	06.11.2020 07:56	
4-Bromofluorobenzene	99		9	94		91		70	-130	%	06.11.2020 07:56	

Analytical Method:	BTEX by EPA 8021	В						P	rep Meth	od: SW	5035A	
Seq Number:	3128596			Matrix:	Soil				Date Pr	ep: 06.1	10.2020	
Parent Sample Id:	664078-001		MS Sar	nple Id:	664078-00	01 S		MS	D Sample	e Id: 664	078-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.112	112	0.117	116	70-130	4	35	mg/kg	06.10.2020 23:26	
Toluene	< 0.00199	0.0996	0.103	103	0.109	108	70-130	6	35	mg/kg	06.10.2020 23:26	
Ethylbenzene	< 0.00199	0.0996	0.0943	95	0.102	101	71-129	8	35	mg/kg	06.10.2020 23:26	
m,p-Xylenes	< 0.00398	0.199	0.193	97	0.209	104	70-135	8	35	mg/kg	06.10.2020 23:26	
o-Xylene	< 0.00199	0.0996	0.0992	100	0.107	106	71-133	8	35	mg/kg	06.10.2020 23:26	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	

%Rec	Flag	%Rec	Flag	Linits	emis	Date
105		108		70-130	%	06.10.2020 23:26
94		94		70-130	%	06.10.2020 23:26
	105	%Rec Flag 105	%Rec Flag %Rec 105 108	%Rec Flag %Rec Flag 105 108	%Rec Flag %Rec Flag 105 108 70-130	%Rec Flag %Rec Flag 105 108 70-130 %

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

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

Work Order Comments UST/PST "PRP Project: RRC "Juperfund S: EDD ADaPT Other: Frequence TAT starts the day received by the starts the day received by 4:30pm Sample Comments Sample Comments Sample Comments Sample Comments Sample Comments Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Tatriting Hg Sample control 1631/245.117470/17471: Hg Hg Progetiated. Date/Time Expression the control

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Acceptable Temperature Range: 0 - 6 degC							
Air and Metal samples Acceptable Range: Ambient							
Temperature Measuring de	evice used : T-NM-007						
pt Checklist	Comments						
2							
Yes							
Yes							
Yes							
Yes							
Yes							
Yes							
No							
Yes							
Yes							
Yes							
Yes	Sample received in bulk container.						
Yes							
Yes							
Yes							
Yes							
No							
N/A							
	Air and Metal samples Acc Temperature Measuring do pt Checklist 2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes						

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Warmer

Date: 06.10.2020

Jessica Kramer

Date: 06.11.2020

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	30629
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
rhamlet	XTO's deferral requests to complete final remediation of soil sample locations BH01, BH02, and BH3 during any future major deconstruction/alteration and/or abandonment, whichever occurs	9/8/2021
	first. At this time, OCD approves the request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and	
	reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	

Action 30629