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Incident ID	NAPP2116030736
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following is	tems must be inc	luded in the closure report.
	1 NMAC	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office n	nust be notified 2 days prior to final sampling)
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rereluman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the conaccordance with 19.15.29.13 NMAC including notification to the OPrinted Name: Adrian Baker Oddien Baker Signature:	a C-141 report by mediate contamina a C-141 report do ations. The responditions that exist DCD when reclam	y the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface water, sees not relieve the operator of responsibility for insible party acknowledges they must substantially ted prior to the release or their final land use in ation and re-vegetation are complete.
email:Adrian.Baker@exxonmobil.com	l elephone:	(432)-236-3808
OCD Only		
Received by: Robert Hamlet	Date:	11/22/2021
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	water, human hea	
Closure Approved by: Robert Hamlet	Date:	11/22/2021
Printed Name: Robert Hamlet	_ Title:	Environmental Specialist - Advanced

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2116030736
District RP	· ·
Facility ID	
Application ID	

Release Notification

Responsible Party

		OGRID	5380	
Contact Name Kyle Littrell		Contact Te	elephone 432-221-7331	
Contact email kyle.	Contact email kyle.littrell@exxonmobil.com			(assigned by OCD)
Contact mailing ad	Contact mailing address 522 W. Mermod, Carlsbad, NM 88220			
Location of Release Source Latitude 32.24588 Longitude 103.91644 Longitude (NAD 83 in decimal places)				
Site Name Poker I		·	Site Type F	
I OKCI I	ake Unit North Frac	Pond		
Date Release Disco	vered 05/26/2021		API# (if app	nicable)
Unit Letter Sect	ion Township	Range	Coun	ity
I O	5 24S	30E	Edd	у
Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)				
		Volume Recovered (bbls)		
roduced Water	Produced Water Volume Released (bbls) 29.30		0	Volume Recovered (bbls) 0.00
Is the concentration of total dissolved solids in the produced water >10,000 mg/l?			` ,	☐ Yes ☐ No
Condensate			2	Volume Recovered (bbls)
☐ Natural Gas	☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)
Other (describe)	Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)			Volume/Weight Recovered (provide units)
Cause of Release A connection failure on a lay flat hose resulted in a release of fluids onto permeable soil. Vac trucks were unable to recover any of the fluid. A third-party contractor has been retained for remediation activities.				

Form C-141 Page 2 State of New Mexico Oil Conservation Division

Incident ID	NAPP2116030736
District RP	
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Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by	A release equal to or greater than 25 barrel	S.
19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate n	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
Yes, by Garrett Green to l	Mike Bratcher; Victoria Venegas; Rob Ham	let; emily.hernandez@state.nm.us;
camorgan@blm.gov; blm	_nm_cfo_spill@blm.gov on Thursday, May	27, 2021 9:38 AM via email.
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
ř	,	
The source of the rele	ease has been stopped.	
	**	41
	as been secured to protect human health and	
		likes, absorbent pads, or other containment devices.
★ All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain v	why:
NA		
		emediation 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.		
		best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	a C-141 report does not reneve the operator of	
Printed Name: Kyle Litt	rell	Title: Environmental Manager
Printed Name:	5/11-	
Signature	Collect	Date: 6-9-21
email: kyle.httrell@exxc	onmobil.com	Telephone: 432-221-7331
Cilian.		Telephone.
OCD Only		
	2.6	- 6/9/2021
Received by: Ramo	ona Marcus	Date:

Location:	PLU North Frac Pond		
Spill Date:	5/26/2021		
	Area 1		
Approximate A	rea =	16638.00	sq. ft.
Average Satura	tion (or depth) of spill =	1.50	inches
Average Porosi	Average Porosity Factor = 0.03		
	VOLUME OF LEAK		
Total Produced	Water =	11.11	bbls
	Area 2		
Approximate A	rea =	54463.00	sq. ft.
Average Saturation (or depth) of spill = 0.75 inc		inches	
Average Porosity Factor = 0.03			
VOLUME OF LEAK			
Total Produced	Water =	18.19	bbls
TOTAL VOLUME OF LEAK			
Total Produced	Water =	29.30	bbls
	TOTAL VOLUME RECOVERED		
Total Produced	Water =	0.00	bbls

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

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

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

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

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

CONDITIONS

Action 31111

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	31111
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	6/9/2021

of New Mexico Incident ID NAPP2116030736

Incident ID	NAPP2116030736
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Facility ID	
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Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well included in the property of the property o	ls.	
☐ Data table of soil contaminant concentration data ☐ Depth to water determination		
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release		
 ☑ Boring or excavation logs ☑ Photographs including date and GIS information 		
☐ Topographic/Aerial maps		
☐ Laboratory data including chain of custody		

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

Received by OCD: 8/25/2021 8:17:03 AM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

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ncident ID	NAPP2116030736
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Incident ID	NAPP2116030736
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the follow	ring items must be includ	ed in the closure report.
A scaled site and sampling diagram as described in 19.15	5.29.11 NMAC	
Photographs of the remediated site prior to backfill or ph must be notified 2 days prior to liner inspection)	notos of the liner integrity	r if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	ODC District office mus	t be notified 2 days prior to final sampling)
□ Description of remediation activities		
I hereby certify that the information given above is true and co and regulations all operators are required to report and/or file c may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate an human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or rerestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the	certain release notification ce of a C-141 report by the nd remediate contamination ce of a C-141 report does egulations. The responsible conditions that existed	as and perform corrective actions for releases which the OCD does not relieve the operator of liability on that pose a threat to groundwater, surface water, not relieve the operator of responsibility for the party acknowledges they must substantially prior to the release or their final land use in
Printed Name:Adrian Baker	Title:	SSHE Coordinator
Signature:	Date:0 <u>8/18/</u>	2021
email:Adrian.Baker@exxonmobil.com	Telephone:	(432)-236-3808
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible premediate contamination that poses a threat to groundwater, sur party of compliance with any other federal, state, or local laws	face water, human health,	
Closure Approved by:	Date:	
Printed Name:	Title:	

wsp

WSP USA

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

August 17, 2021

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

RE: Closure Request

Poker Lake Unit North Frac Pond Incident Number NAPP2116030736 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Poker Lake Unit (PLU) North Frac Pond (Site) located in Unit I, Section 06, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2116030736.

RELEASE BACKGROUND

On May 26, 2021, a connection on a lay flat hose failed, resulting in the release of approximately 29.30 barrels (bbls) of produced water onto the caliche pad. No fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on May 27, 2021. A Release Notification and Corrective Action Form C-141 (Form C-141) was submitted on June 9, 2021. The release was assigned Incident Number NAPP2116030736.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During May 2021, WSP installed a soil boring (C-04526) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-04526 was drilled to a depth of 105 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log is included in Attachment 1. The location of the borehole is on Site in the southwest corner of the pad (approximately 0.02 miles southwest of the release extent) and is depicted on Figure 1. The borehole was left open for over 72 hours to



allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 100 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine located approximately 3,143 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

 Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On June 14, 2021 and July 9, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected eight preliminary assessment soil samples (SS01 through SS08) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. Soil from the preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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



DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS02 and SS05 through SS08 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil samples SS01, SS03, and SS04 indicated that chloride concentrations exceeded the Site Closure Criteria. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION SOIL SAMPLING AND EXCAVATION ACTIVITIES

Between July 8, 2021 and July 15, 2021, WSP personnel returned to the Site to oversee delineation and excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples.

Eleven potholes (PH01 through PH11) were advanced via track-mounted backhoe within the release extent to assess the vertical extent of impacted soil. Potholes PH01 through PH11 were advanced to a depth of 2 feet bgs. Delineation soil samples were collected from each pothole from depths ranging from 0.5 feet to 2 feet bgs. Soil from the potholes were field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. Potholes were not advanced in the area of preliminary samples SS05 through SS08 due to the presence of the frac pond impermeable liner at 1-foot bgs in this area. The potholes and delineation soil sample locations are depicted on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 3.

Excavation activities were completed to remove surficial staining in the release footprint and remove impacted soil in the areas surrounding preliminary soil samples SS01, SS03, and SS04. Excavation activities were performed using a track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavations were completed to a depth of 1-foot bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS68 were collected from the floor of the excavations, from a depth of 1-foot bgs. Due to the shallow depth of the excavations, the soil samples represented the floor and sidewalls of the excavations.



The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extents and excavation soil sample locations are presented on Figure 4. Photographic documentation is included in Attachment 3.

The excavation areas totaled approximately 13,380 square feet. A total of approximately 495 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH11 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for excavation floor samples FS01 through FS68, collected from the final excavation extents, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 26, 2021 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extents, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, the release was vertically delineated to the most stringent Table 1 Closure Criteria by soil samples collected from potholes PH01 through PH11. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater has been determined to be greater than 105 feet bgs and no other sensitive receptors were identified near the release extent. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number NAPP2116030736.



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

Sincerely,

WSP USA Inc.

Kaleb Henry

Kaleb Henry

Assistant Consultant, Geologist

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Adrian Baker, XTO

Bureau of Land Management

Attachments:

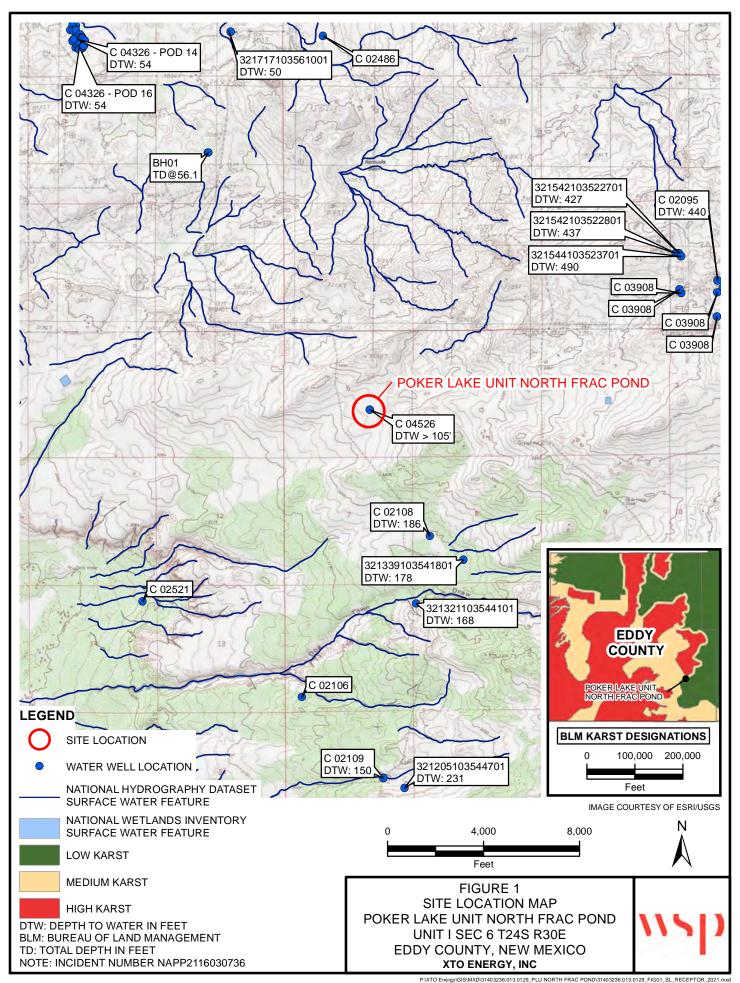
Figure 1 Site Location Map

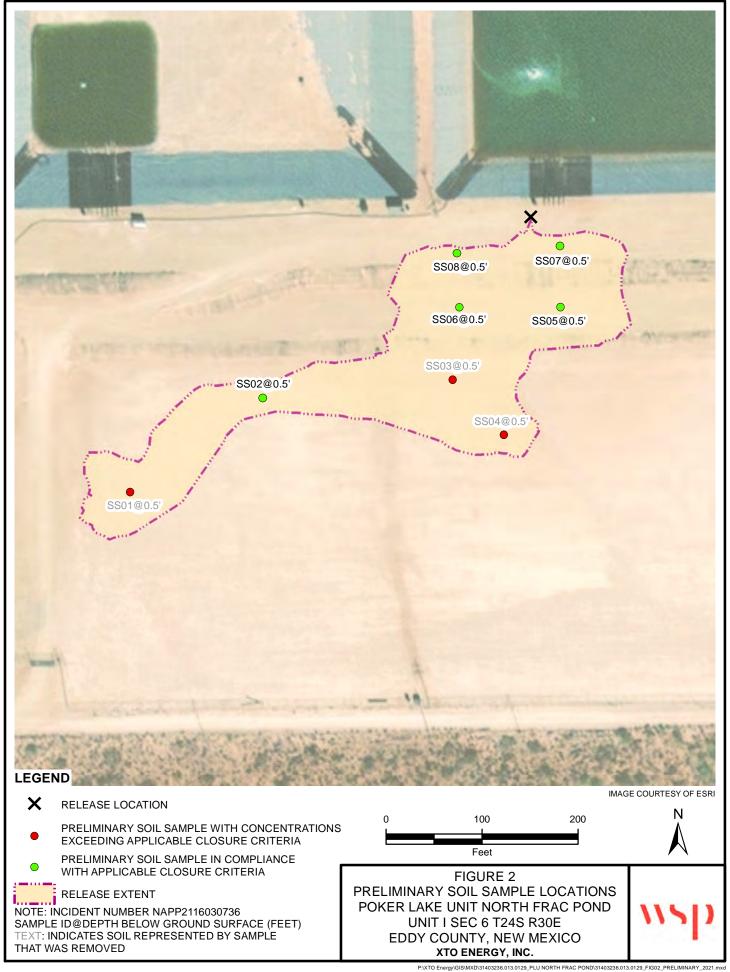
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations

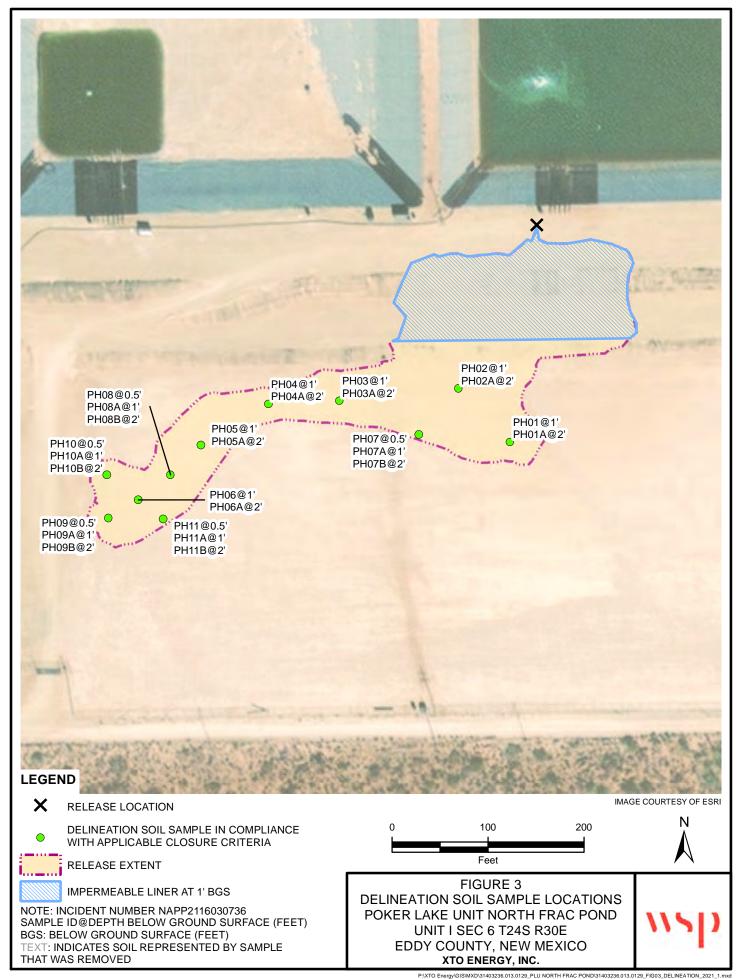
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/Sampling Log

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports







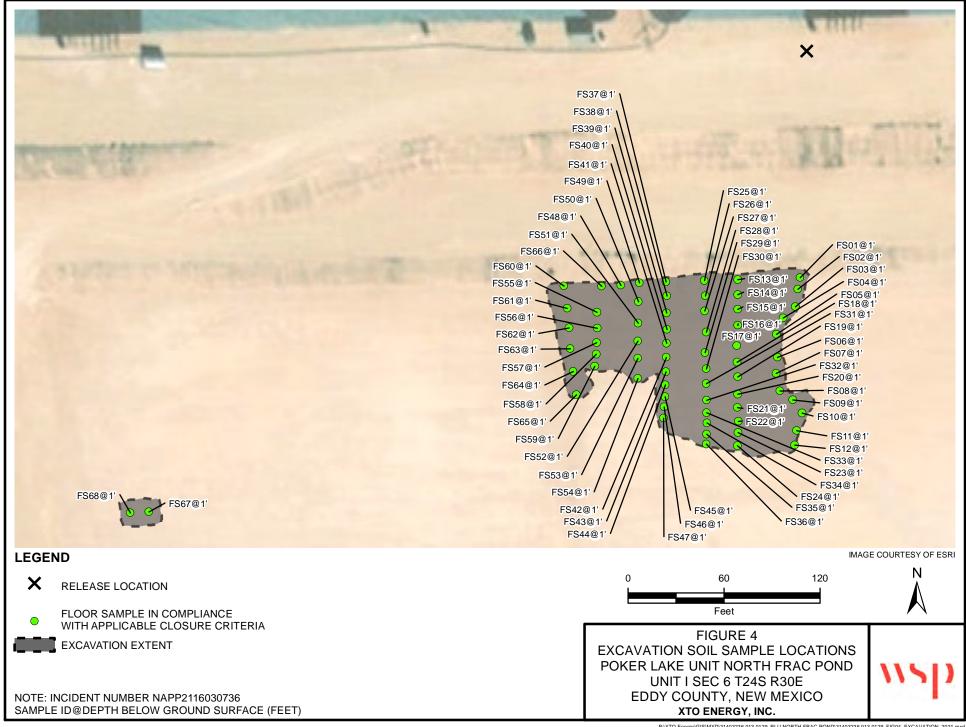


Table 1

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Sa	mples									
SS01	06/14/2021	0.5	< 0.00198	< 0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	31,000
SS02	06/14/2021	0.5	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	14,400
SS03	06/14/2021	0.5	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	46,500
SS04	06/14/2021	0.5	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	21,000
SS05	06/14/2021	0.5	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	17,800
SS06	06/14/2021	0.5	< 0.00200	< 0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	7,790
SS07	07/09/2021	0.5	<.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7,420
SS08	07/09/2021	0.5	<.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,010
Delineation Soil San	nples									
PH01	07/08/2021	1	< 0.00202	< 0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	1,420
PH01A	07/08/2021	2	< 0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	95.9
PH02	07/08/2021	1	0.00828	0.0829	<50.0	<50.0	<50.0	<50.0	<50.0	172
PH02A	07/08/2021	2	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	< 50.0	<50.0	29.7
PH03	07/08/2021	1	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,620
PH03A	07/08/2021	2	< 0.00199	< 0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	56.0
PH04	07/08/2021	1	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	240
PH04A	07/08/2021	2	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	88.8
PH05	07/08/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	790
PH05A	07/08/2021	2	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	109
PH06	07/08/2021	1	<0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,360
PH06A	07/08/2021	2	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	145

Table 1

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
PH07	07/12/2021	0.5	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,900
PH07A	07/12/2021	1	0.0138	0.224	<49.9	<49.9	<49.9	<49.9	<49.9	361
PH07B	07/12/2021	2	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	< 50.0	484
PH08	07/14/2021	0.5	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,860
PH08A	07/14/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	< 50.0	< 50.0	476
PH08B	07/14/2021	2	0.00753	0.00753	<50.0	<50.0	<50.0	< 50.0	< 50.0	67.2
PH09	07/14/2021	0.5	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	994
PH09A	07/14/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	< 50.0	157
РН09В	07/14/2021	2	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	< 50.0	55.6
PH10	07/14/2021	0.5	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	235
PH10A	07/14/2021	1	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	84.1
PH10B	07/14/2021	2	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	60.3
PH11	07/14/2021	0.5	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	2,120
PH11A	07/14/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	< 50.0	< 50.0	79.4
PH11B	07/14/2021	2	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	164
Excavation Soil Sam	ples									
FS01	07/12/2021	1	< 0.00202	< 0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	506
FS02	07/12/2021	1	< 0.00201	< 0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	99.3
FS03	07/12/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	530
FS04	07/12/2021	1	< 0.00202	< 0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	413
FS05	07/12/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	250
FS06	07/12/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	298

Table 1

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS07	07/12/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	382
FS08	07/12/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	520
FS09	07/12/2021	1	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	1,570
FS10	07/12/2021	1	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	548
FS11	07/12/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	876
FS12	07/12/2021	1	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	212
FS13	07/12/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,530
FS14	07/12/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,260
FS15	07/12/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	195
FS16	07/12/2021	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	350
FS17	07/12/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	507
FS18	07/15/2021	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,150
FS19	07/15/2021	1	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	513
FS20	07/15/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,270
FS21	07/15/2021	1	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	201
FS22	07/15/2021	1	< 0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	207
FS23	07/15/2021	1	< 0.00202	< 0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	250
FS24	07/15/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	121
FS25	07/15/2021	1	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	1,430
FS26	07/15/2021	1	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	942
FS27	07/15/2021	1	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	506
FS28	07/15/2021	1	< 0.00199	< 0.00398	< 50.0	<50.0	<50.0	<50.0	<50.0	134

Table 1

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS29	07/15/2021	1	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	< 50.0	298
FS30	07/15/2021	1	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	90.6
FS31	07/15/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	129
FS32	07/15/2021	1	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	340
FS33	07/15/2021	1	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	223
FS34	07/15/2021	1	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	539
FS35	07/15/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	352
FS36	07/15/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	358
FS37	07/15/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	146
FS38	07/15/2021	1	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	133
FS39	07/15/2021	1	< 0.00198	< 0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	91.9
FS40	07/15/2021	1	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	17.5
FS41	07/15/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	15.0
FS42	07/15/2021	1	< 0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	25.5
FS43	07/15/2021	1	< 0.00200	< 0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	74.8
FS44	07/15/2021	1	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	102
FS45	07/15/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	111
FS46	07/15/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	237
FS47	07/15/2021	1	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	168
FS48	07/15/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	111
FS49	07/15/2021	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	444
FS50	07/15/2021	1	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	262

Table 1

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS51	07/15/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	146
FS52	07/15/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	83.5
FS53	07/15/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	< 50.0	<50.0	< 50.0	347
FS54	07/15/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,140
FS55	07/15/2021	1	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	881
FS56	07/15/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	936
FS57	07/15/2021	1	< 0.00198	< 0.00396	<50.0	<50.0	< 50.0	< 50.0	< 50.0	97.2
FS58	07/15/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	< 50.0	<50.0	< 50.0	481
FS59	07/15/2021	1	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	300
FS60	07/15/2021	1	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	83.2
FS61	07/15/2021	1	< 0.00198	< 0.00396	<50.0	<50.0	< 50.0	<50.0	< 50.0	347
FS62	07/15/2021	1	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	901
FS63	07/15/2021	1	< 0.00199	< 0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	729
FS64	07/15/2021	1	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	265
FS65	07/15/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	< 50.0	<50.0	< 50.0	140
FS66	07/15/2021	1	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	10.4
FS67	07/15/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	234
FS68	07/15/2021	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	128

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

WSF

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

Text impacted soil was removed



2904 W 2nd St. Roswell, NM 88201 volce: 575.624.2420 fox: 575.624.2421 www.aikinseng.com

06/09/2021

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4526 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4526 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Gran Whodolin

01 E 07 00 F10 2021 845 27



	OSE POD NO.	-	.)		L TAG ID NO.		OSE FILE NO	(S).		
O	POD1 (MV	V-1)		п/а			C-4526			
ATI	WELL OWNER						PHONE (OPTI	ONAL)		
GENERAL AND WELL LOCATION	XTO Energy	y (Kyle I	Littrell)							
LL	WELL OWNER	MAILING	ADDRESS				CITY		STATE	ZIP
Æ	6401 Holida	y Hill D	r.				Midland		TX 79707	
D			DE	GREES M	IINUTES SEC	CONDS				
A	WELL			32°		2 15"	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	
¥.	LOCATION	Jan K.	TITUDE	4.000		N		QUIRED: WGS 84		
KE	(FROM GPS	LO	NGITUDE	103°		5.20" W				
E	DESCRIPTION	N RELATIN	G WELL LOCATION TO	STREET ADDRESS A	ND COMMON LAN	OMARKS – PL	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
+	NW NE Sec	. 06 T24	S R30E							
	LICENSE NO.		NAME OF LICENSED	DDH I FD				NAME OF WELL DR	II I ING COMPANY	
	1249)	NAME OF LICENSED		e D. Atkins				ineering Associates,	Inc.
			Day I DIG DIDED T			DODE HO	LE DEPTH (FT)		ST ENCOUNTERED (FT	
	DRILLING STA 05/14/2		DRILLING ENDED 05/14/2021	DEPTH OF COMPLE	vell material	BOKE HO	105	DEPTH WATER PIR	n/a	,
	03/1 //2		00/11/2021	tomporary .				OT A THE INTA MEDIA ES	/EL IN COMPLETED W	PLI (PP)
	COMPLETED	WELL IS:	ARTESIAN	V DRY HOLE	SHALLOW (UN	CONFINED)		STATIC WATER LEV	n/a	ELL (FI)
ON										
ATI	DRILLING FLU	ЛD:	✓ AIR	MUD	ADDITIVES – S	PECIFY:				
2. DRILLING & CASING INFORMATION	DRILLING ME	THOD:	ROTARY	HAMMER	CABLE TOOL	✓ OTHE	R - SPECIFY:	Hollo	w Stem Auger	
E O	DEPTH (f	eet hal)	DON'T WOLF	CASING MAT	ERIAL AND/OR	- 42		CASING	a.anva.w.v.	
Ü	FROM	TO	BORE HOLE DIAM		ADE		ASING NECTION	INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE
Ž	110		(inches)		asing string, and ns of screen)		ГҮРЕ	(inches)	(inches)	(inches)
S	0	105	±6.5		g- HSA	(add cour	oling diameter)			_
43		105	-515		9	+				
Ž			+			1				
3			-							
2										
~										
							_			
			+							
		_		-		1				
						4				
	DEPTH (f	eet bgl)	BORE HOLE	LIST A	NNULAR SEAL I	MATERIAL .	AND	AMOUNT	метно	DD OF
AL.	FROM	то	DIAM. (inches)	GRAVEL	PACK SIZE-RAN	GE BY INT	ERVAL	(cubic feet)	PLACE	MENT
ANNULAR MATERIAL				-						
Ι¥Ι										
2										
I,A										
N. T.										
3. AJ										
	-									
	000							A WELL BECOME	\$ 100 dt ' cc'	00/175
	OSE INTERN	IAL USE			T POD NO		WR-2	0 WELL RECORD	& LOG (Version 06/	50/17)
	E NO.				POD NO.				1	11 on 5
LOC	CATION						WELL TAG I	D NO.	PAGE	1 OF 2

WELL TAG ID NO.

	DEPTH (fe	eet bgl)		COLOR AND	TYPE OF MATERIAL I	NCOLIN	TERED -	1	WATE		ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER	-BEARING CAVITIES Clemental sheets to fully d	OR FRAC	TURE ZONE	s	BEARIN (YES/N	G?	YIELD FOR WATER- BEARING ZONES (gpm)
	0	4	4	SAND, poorly g	graded, fine-very grained,	Reddish-	brown, dry		Y,	/ N	
	4	12	8	CALICHE, p	oorly-mod. consolidated,	tan-off w	hite, dry		Y	/ N	
	12	19	7	SAND, poorly grade	d, fine-very grained, some	e caliche	gravel, Tan ,dr	y	Y	/ N	
	19	24	5	SAND, poorly graded, fi	ne-very grained, some cal	iche grave	el, Light- Brov	n, dry	Y v	N	
	24	72	48	SAND, poorly gr	raded, fine-very grained, I	Reddish B	rown, moist		Y	/ N	
ı,	72	92	20	SAND, poorly graded	, fine-very grained, some	silt, Redd	ish Brown, mo	ist	Υ ,	/ N	
4. HYDROGEOLOGIC LOG OF WELL	92	102	10	SILTY SAND, poorl	ly graded, fine-very grains	ed, Reddis	h Brown, moi	st	Y	/N	
OF.	102	105	3	SILTY SAND, poor	rly graded, fine-very grain	ned, Redd	ish Brown, dry	,	Y	/ N	
90									Y	N	
CL				F					Y	N	
O.									Y	N	
EOL									Y	N	
tog									Y	N	
YDE									Y	N	
4. H									Y	N	
								-	Y	N	
3								-	Y	N	
									Y	N	
								-	Y	N	
								-	Y	N	
	-			y .				-	Y	N	
	A CETTIOD III	IPD TO E	THE ATT WITH D	OF WATER-BEARING	CTD ATA.			тота	L ESTIMA		
	PUMP		_		ER – SPECIFY:				L YIELD (0.00
NC	WELL TEST	TEST	RESULTS - ATT T TIME, END TI	ACH A COPY OF DATA ME, AND A TABLE SHO	COLLECTED DURING	WELL T	ESTING, INC WDOWN OVI	LUDII ER THE	NG DISCHA E TESTING	RGE N PERIO	METHOD, D.
TEST; RIG SUPERVISION	MISCELLAN	EOUS INI	Te.	emporary well materials et below ground surface ogs adapted from WSP	e, tnen nyaratea benton	boring baite chips	from ten fee	i deiov	cuttings fr w ground st	uriace	to surface.
TEST	PRINT NAM	E(S) OF D	RILL RIG SUPE	RVISOR(S) THAT PROV	IDED ONSITE SUPERV	ISION OI	WELL CON	STRUC	CTION OTH	ER TH	AN LICENSEE:
5. T		•	elo Trevino, Car								
TURE	CORRECT R	ECORD O	F THE ABOVE I	FIES THAT, TO THE BE DESCRIBED HOLE AND BO DAYS AFTER COMPI	THAT HE OR SHE WII	LL FILE	GE AND BEL THIS WELL F	IEF, TI	HE FOREGO D WITH TE	DING I	S A TRUE AND TE ENGINEER
6. SIGNATURE	Jack At	kins		Jack	tie D. Atkins				06/09/2	021	
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE N.	AME				D	ATE	
FO	R OSE INTERN	IAL USF					WR-20 WE	LL REC	CORD & LO	G (Ver	sion 06/30/2017)
	E NO.	THE CHA		1	POD NO.		TRN NO.				
LO	CATION					WELL.	TAG ID NO.				PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GEN	ERAL / WELL OWNERSHIP:			
State Er	ngineer Well Number: C-4526-POD1			
Well ov	wner: XTO ENERGY (Kyle Littrell)		Phone No.:	432.682.8873
Mailing	address: 6401 Holiday Hill Dr.			
City: N	fidland	_ State:	Texas	Zip code:
II. WE	LL PLUGGING INFORMATION:			
1)	Name of well drilling company that plugged	l well:	Jackie D. Atkins (Atkins Enginee	ring Associates Inc.)
2)	New Mexico Well Driller License No.: 124	19	Ех	piration Date: 04/30/23
3)	Well plugging activities were supervised by Shane Eldridge, Carmelo Trevino, Cameron		owing well driller(s)/rig supervis	or(s):
4)	Date well plugging began: 06/08/2021		Date well plugging conclud	ed: 06/08/2021
5)		32 103	deg,14min,42. deg,55min,6.2	15 sec 20 sec, WGS 84
6)	Depth of well confirmed at initiation of plug by the following manner: weighted tape	gging as:	105 ft below ground lev	vel (bgl),
7)	Static water level measured at initiation of p	lugging	:n/aft bgl	
8)	Date well plugging plan of operations was a	pproved	by the State Engineer: 04/12/2	021
9)	Were all plugging activities consistent with differences between the approved plugging	an appro plan and	oved plugging plan? Yes the well as it was plugged (attack	If not, please describe h additional pages as needed):
			93	E DN 50410 2021 942117

Version: September 8, 2009

Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 15.6 gallons	15.9 gallons	Augers	
	10'-105' Drill Cuttings	Approx. 151 gallons	151 gallons	Boring	
=	•	5	_		
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		,			
-					
		MULTIPLY I cubic feet x 7.4 cubic yards x 201.9	3Y AND OBTAIN 1805 = gallons 37 = gallons	i see on a	SIN EQ 2021 PM2:113

III. SIGNATURE:

I, Jackie D. Atkins	, say that I am familiar with the rules of	
Engineer pertaining to the plugging of wells and that e	each and all of the statements in this Plugging	g Record and attachments
are true to the best of my knowledge and belief.		
Jack Atku	na	06/09/2021
	Signature of Well Driller	Date

Version: September 8, 2009 Page 2 of 2

2021-06-07_C-4526_POD1_OSE_Well Record and Log_155-forsign

Final Audit Report 2021-06-09

Created: 2021-06-09

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAARqNIK9bZ1aR8TqT_nRoFVSc9LoFFimkY

"2021-06-07_C-4526_POD1_OSE_Well Record and Log_155-for sign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-06-09 5:43:46 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-06-09 5:44:36 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com)
 2021-06-09 6:44:57 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2021-06-09 6:45:44 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-06-09 - 6:45:44 PM GMT

| ISSE DIT JEN 10 2021 24711 F



Lat/Lo	ong:		OLOG	5 Car GIC / SOIL	508 West S Isbad, Ne	ING LO	BH or PH Name: PH01 Site Name: Poker L RP or Incident Num WSP Job Number: Logged By: LAD Hole Diameter:	nber: NAPP211	6030736			
Comm					Chloride, F				2'			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			Lithology/R		
dry	1,192	0.1	N	PH01	1 - 1	1	SW		AND, dry, brown no stain, no odo		own, low plasticity, some	off-white
dry	<151	0.2	Z	PH01A	2'	2					Total Depth: 2 feet bgs	

			7		WS	SP USA		BH or PH Name:		Date:			
	111							PH02	1 12 12 12 12 12 12	07/08/2021			
				Car	508 West States	Stevens S w Mexico	itreet 88220		Site Name: Poker Lake Unit North Frac Pond				
				Cal	isbau, ive	V IVICAICO	00220		RP or Incident Number: NAPP2116030736 WSP Job Number: 31403236.013.0129				
		1 1711		GIC / SOIL	CAMPI	INCLO	C				Method: Backhoe		
Lat/Lo	na.	LIITI	JLUC	JIC / SUIL	Field Scre		Logged By LAD Hole Diameter:		Total Depth:				
					Chloride, I				2'				
Comments:													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bas)	USCS			Lithology/R	emarks		
					-	0	SW	SILTY S. caliche,	SAND, dry, brown-reddish brown, low plasticity, some off-white, no stain, no odor				
dry	790.4	0.1	N	PH02	1' -	1							
dry	451.2	0.0	N	PH02A	2'	2							
					- - - - -	- - - - - -							
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					- - -	 - -					Total Depth: 2 f	eet bgs	
					- - -								

Lat/Lo	ing:) OLOG	GIC / SOIL	508 West S rlsbad, Nev	ING LO	BH or PH Name: PH03 Site Name: Poker RP or Incident Nu WSP Job Number Logged By: LAD Hole Diameter:	mber: NAPP211	6030736			
Comm	nents:								•			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS			Lithology/R		
dry	1,328.5	0.2	N	PH03	1' -	1	SW		AND, dry, brow no stain, no od		own, low plasticity, some o	ff-white
dry	451.2	0.0	Z	PH03A	2'	2 - 2					Total Depth: 2 feet bgs	

Lat/Lo	ong:		OLOG	GIC / SOIL	508 West S rlsbad, Nev	ING LO	BH or PH Name: PH04 Site Name: Poker L RP or Incident Num WSP Job Number: Logged By: LAD Hole Diameter:	nber: NAPP211	6030736			
Comm	nents:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS			Lithology/R		
dry	308	1.7	N	PH04	1' -	1	SW	SILTY S caliche,	AND, dry, browr no stain, no odo	n-reddish bro r	own, low plasticity, som	ne off-white
dry	451.2	0.4	Z	PH04A	2'	2					Total Depth: 2 feet bgs	S

						DILLO			BH or PH Name:		Date:	
	11				WS	P USA			PH05		07/08/2021	
				5	08 West	Stevens S w Mexico	street		Site Name: Poker Lake	Unit North	Frac Pond	
				Car	isbad, Ne	w Mexico	88220		RP or Incident Number:			
									WSP Job Number: 314			
		LITH	OLOC	SIC / SOIL			G		Logged By: LAD		Method: Backhoe	
Lat/Lo	ng:				Field Scre Chloride, I				Hole Diameter:		Total Depth: 2'	
Comm	nents:				2	·-					<u> </u>	
					<u> </u>			1				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lit	hology/R	emarks	
					<u> </u>	0	SW	SILTY S	AND, dry, brown-re	ddish bro	own, low plasticity, som	ne off-white
dry	572	0.1	N	PH05	1' -	1 1 - 2		caliche,	no stain, no odor			
dry	<151.2	0.1	N	PH05A	2'	2					Total Depth: 2 feet bgs	5

			7		WS	P USA			BH or PH Name:		Date:
	119						N		PH06		07/08/2021
				5 Car	U8 West S	Stevens S w Mexico	street		Site Name: Poker Lake Ui		
				Cdl	isbau, NE	vv iviexic0	00220		RP or Incident Number: N		
		1 177 1	01.00	210. / 00"	CAMP	INICALO	^		WSP Job Number: 31403	∠36.013	
Lat/Lo	na:	LIIH	OLU(SIC / SOIL	Field Scre		G		Logged By: LAD Hole Diameter:		Method: Backhoe Total Depth:
LavLO	nig.				Chloride, I				note Diantetel.		2'
Comm	nents:				· · · ·						
						1		1			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/R	Remarks
					1	0	SW			dish bro	own, low plasticity, some off-white
					_				no stain, no odor		
					_	 					
					-	_					
dry	1,607.2	0.1	Ν	PH06	1'	1					
					_	 					
					-	-					
	465			DI I S							
dry	190.4	0.1	N	PH06A	2'	_ 2					
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									BH or PH Name:		Date:	
	11				WS	P USA			PH07		07/12/2021	
				5	508 West S	Stevens S	Street		Site Name: Poker Lake	Unit North	Frac Pond	
				Car	08 West S Isbad, Ne	w Mexico	88220		RP or Incident Number:			
									WSP Job Number: 3140	03236.013	.0129	
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO	G		Logged By: LAD		Method: Backhoe	
Lat/Lo	ong:				Field Scre				Hole Diameter:		Total Depth:	
					Chloride, I	PID					2'	
Comn	nents:											
							~					
re nt) de	<u>-</u> _	βι	#	Sample		lo C					
istu	loric	Vapor (ppm)	Staining	nple	Depth	Depth	S/R mb		Lith	hology/R	emarks	
Moisture Content	Chloride (ppm)	> 0	Sta	Sample #	(ft bgs)	(ft bgs)	USCS/Rock Symbol					
								011 T) (0				
dnı	2 211 6	0.0	N	PH07	0.5'	0	SW			ddish bro	own, low plasticity, so	ome off-white I
dry	2,311.6	0.0	IN	PHU/	0.5	_		calicne,	no stain, no odor			
					_	_						
					_	_						
dry	436.8	0.0	Ν	PH07A	1'	1						
					_	_						
					_	_						
					_	_						
dry	336	0.0	Ν	PH07B	2'	2						
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,	\\ <u>'</u>) OLOG	5 Car GIC / SOIL	508 West S Isbad, Ne				BH or PH Name: PH08 Site Name: Poker L RP or Incident Num WSP Job Number: Logged By: LAD	nber: NAPP211	6030736	
Lat/Lo	ong:				Field Scre				Hole Diameter:		Total Depth: 2'	\exists
Comr	nents:				Chloride, F	- וט			<u> </u>		<u> </u> -	\dashv
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			Lithology/R		
dry	1,523.2	0.2	N	PH08	0.5'	0	SW		AND, dry, browr no stain, no odo		own, low plasticity, some off-w	vhite
dry	936.8	0.0	N	PH08A	1' -	- - - 1 -		edilotte,	no stain, no odo	•		
dry	<179.2	0.0	Z	PH08B	2'	2					Total Depth: 2 feet bgs	

	\\') OLOG	5 Car GIC / SOIL	508 West S Isbad, Ne - SAMPL	ING LO		BH or PH Name: PH09 Site Name: Poker RP or Incident Nu WSP Job Number Logged By: LAD	mber: NAPP211	.0129 Method: Backhoe
Lat/Lo					Field Scre Chloride, F			Hole Diameter:		Total Depth: 2'
Comn	nents:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lithology/R	
dry	1,047.2	0.0	N	PH09	0.5'	0	SW	AND, dry, brow no stain, no od		own, low plasticity, some off-whit
dry	<179.2	0.0	Ν	PH09A	1' - -	- - - 1 -				
dry	<179.2	0.0	Z	PH09B	2'	- 2 - 2 				Total Denth: 2 feet has
					-	 - - - -				Total Depth: 2 feet bgs

Lat/Lo	WSP USA 508 West Stevens Carlsbad, New Mexi LITHOLOGIC / SOIL SAMPLING L ong: Field Screening: Chloride, PID								BH or PH Name: PH10 Site Name: Poke RP or Incident N WSP Job Numbe Logged By. LAD Hole Diameter:	er Lake Unit North umber: NAPP21	16030736	
Comn											2'	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/F	Remarks	
dry	336.0	0.0	N	PH10	0.5'	0	SW	SILTY S caliche,	AND, dry, brov no stain, no oc	wn-reddish br dor	own, low plasticity, so	me off-white
dry	<179.2	0.0	N	PH10A	1' <u>-</u>	- - 1 -						
dry	<179.2	0.0	Z	PH10B	2'	2					Total Depth: 2 feet b	as and a second
					- - - -	- - - - -					10tai Deptii. 2 leet 0	ys

									BH or PH Name:		Date:	
	11				WS	P USA			PH11		07/14/2021	
,				5	08 West S	Stevens S	Street		Site Name: Poker Lake	Unit North	Frac Pond	
				Car	08 West S Isbad, Ne	w Mexico	88220		RP or Incident Number:			
									WSP Job Number: 3140	03236.013	.0129	
		LITH	OLO	SIC / SOIL	SAMPL	ING LO	G		Logged By: LAD		Method: Backhoe	
Lat/Lo	ng:				Field Scre	ening:			Hole Diameter:		Total Depth:	
					Chloride, I	PID					2'	
Comm	nents:											
							~					
ıre	de (J. (υg	# O	Sample	Donath	Soci					
istu	Chloride (ppm)	Vapor (ppm)	Staining	npl	Depth	Depth (ft bgs)	S/F mb		Lith	nology/R	emarks	
Moisture Content	ပ္ ပ	> 3	Sta	Sample #	(ft bgs)	(it bgs)	USCS/Rock Symbol					
								OII TV O	AND II have a	I.P. L. L.		
dry	1,875	0.2	N	PH11	0.5'	0	SW		AND, dry, brown-red no stain, no odor	aaisn bro	own, low plasticity, so	me off-white
ury	1,075	0.2	14		0.5	_		canone,	io stairi, no odoi			
					_	_						
					_	<u> </u>						
dry	295.2	0.0	Ν	PH11A	1'	_ 1						
					_	_						
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dry	212.8	0.0	Ν	PH11B	2'	2						
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	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Poker Lake Unit North Frac Pond	NAPP2116030736
	Eddy County, New Mexico	

Photo No.	Date				
1	June 14, 2021				
Southwest facin	ng view of release	1			
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			- The second second second		NAME OF THE OWNER OWNER OF THE OWNER OWNE
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	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Poker Lake Unit North Frac Pond	NAPP2116030736
	Eddy County, New Mexico	

Photo No.	Date					
3	July 9, 2021					
Northwest facing view of excavation						
activities.						



Photo No.	Date				
4	July 13, 2021				
Southwest facing view of final					
excavation extent.					





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-806-1

Laboratory Sample Delivery Group: Eddy County

Client Project/Site: PLU North Frac Pond

For:

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

Attn: Kalei Jennings

MAMER

Authorized for release by: 6/21/2021 2:39:08 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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Released to Imaging: 11/22/2021 1:50:39 PM

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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Client: WSP USA Inc.
Project/Site: PLU North Frac Pond

Laboratory Job ID: 890-806-1
SDG: Eddy County

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QC Association Summary	14
Lab Chronicle	16
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Method Summary	19
Sample Summary	20
Chain of Custody	21
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-806-1 Project/Site: PLU North Frac Pond SDG: Eddy County

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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 RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-806-1 SDG: Eddy County

Job ID: 890-806-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-806-1

Receipt

The samples were received on 6/14/2021 3:51 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 2.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS01 (890-806-1), SS02 (890-806-2), SS03 (890-806-3), SS04 (890-806-4), SS05 (890-806-5) and SS06 (890-806-6).

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.

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Client Sample ID: SS01

Date Collected: 06/14/21 12:35

Date Received: 06/14/21 15:51

Project/Site: PLU North Frac Pond

Job ID: 890-806-1 SDG: Eddy County

Lab Sample ID: 890-806-1

Matrix: Solid

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/16/21 10:17	06/17/21 04:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/16/21 10:17	06/17/21 04:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/16/21 10:17	06/17/21 04:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/16/21 10:17	06/17/21 04:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/16/21 10:17	06/17/21 04:23	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		06/16/21 10:17	06/17/21 04:23	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		06/16/21 10:17	06/17/21 04:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			06/16/21 10:17	06/17/21 04:23	1
1,4-Difluorobenzene (Surr)	92		70 - 130			06/16/21 10:17	06/17/21 04:23	1

Analyte	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
								— Dil i ac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		06/16/21 13:46	06/20/21 13:39	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		06/16/21 13:46	06/20/21 13:39	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/16/21 13:46	06/20/21 13:39	1
Total TPH	<49.7	U	49.7	mg/Kg		06/16/21 13:46	06/20/21 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			06/16/21 13:46	06/20/21 13:39	1
o-Terphenyl	73		70 - 130			06/16/21 13:46	06/20/21 13:39	1

Method: 300.0 - Anions, Ion Chro	matography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31000	248	mg/Kg			06/17/21 19:57	50

Client Sample ID: SS02 Date Collected: 06/14/21 12:38 Date Received: 06/14/21 15:51

Released to Imaging: 11/22/2021 1:50:39 PM

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/16/21 10:17	06/17/21 04:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/16/21 10:17	06/17/21 04:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/16/21 10:17	06/17/21 04:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/16/21 10:17	06/17/21 04:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/16/21 10:17	06/17/21 04:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/16/21 10:17	06/17/21 04:44	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		06/16/21 10:17	06/17/21 04:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			06/16/21 10:17	06/17/21 04:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130			06/16/21 10:17	06/17/21 04:44	1

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Lab Sample ID: 890-806-2

Matrix: Solid

Project/Site: PLU North Frac Pond

Job ID: 890-806-1

SDG: Eddy County

Client Sample ID: SS02

Date Collected: 06/14/21 12:38

Date Received: 06/14/21 15:51 Sample Depth: - 0.5

Lab Sample ID: 890-806-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		06/16/21 13:46	06/20/21 14:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		06/16/21 13:46	06/20/21 14:42	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/16/21 13:46	06/20/21 14:42	1
Total TPH	<49.9	U	49.9	mg/Kg		06/16/21 13:46	06/20/21 14:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			06/16/21 13:46	06/20/21 14:42	1
o-Terphenyl	66	S1-	70 - 130			06/16/21 13:46	06/20/21 14:42	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14400		100	mg/Kg			06/17/21 20:03	20

Client Sample ID: SS03 Lab Sample ID: 890-806-3 Matrix: Solid

Date Collected: 06/14/21 12:52 Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Wethou. 002 ID - Volatile Of	gariic compounds ((00)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 05:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 05:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 05:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/16/21 10:17	06/17/21 05:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 05:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/16/21 10:17	06/17/21 05:04	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/16/21 10:17	06/17/21 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/16/21 10:17	06/17/21 05:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/16/21 10:17	06/17/21 05:04	1

Method: 8015B	MW - Diesei	Range Org	Janies (DR	(U) (GC)

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 15:03	1
	(GRO)-C6-C10								
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 15:03	1
	C10-C28)								
	OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 15:03	1
ı	Total TPH	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 15:03	1
	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	06/16/21	13:46	06/20/21 15:03	1
o-Terphenyl	72		70 - 130	06/16/21	13:46	06/20/21 15:03	1

Method: 300.0 - Anions.	ion Chromatography	- Soluble

mountain volume 7 millions, ion on one	atograpily (0.00.0						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46500		250	mg/Kg			06/17/21 20:08	50

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6/21/2021

Project/Site: PLU North Frac Pond

Date Received: 06/14/21 15:51

SDG: Eddy County

Job ID: 890-806-1

Client Sample ID: SS04 Date Collected: 06/14/21 12:55

Lab Sample ID: 890-806-4 Matrix: Solid

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 05:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 05:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 05:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/16/21 10:17	06/17/21 05:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 05:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/16/21 10:17	06/17/21 05:25	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		06/16/21 10:17	06/17/21 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			06/16/21 10:17	06/17/21 05:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130			06/16/21 10:17	06/17/21 05:25	1

Method: 8015B NM - Diesel Rang	•	, , ,						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		06/16/21 13:46	06/20/21 15:24	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		06/16/21 13:46	06/20/21 15:24	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/16/21 13:46	06/20/21 15:24	1
Total TPH	<49.8	U	49.8	mg/Kg		06/16/21 13:46	06/20/21 15:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			06/16/21 13:46	06/20/21 15:24	1
o-Terphenyl	70		70 - 130			06/16/21 13:46	06/20/21 15:24	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21000	252	mg/Kg			06/17/21 20:14	50

Client Sample ID: SS05 Date Collected: 06/14/21 13:15 Date Received: 06/14/21 15:51

Matrix: Solid

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:17	06/17/21 05:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:17	06/17/21 05:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:17	06/17/21 05:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/16/21 10:17	06/17/21 05:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:17	06/17/21 05:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/16/21 10:17	06/17/21 05:45	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/16/21 10:17	06/17/21 05:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			06/16/21 10:17	06/17/21 05:45	
1,4-Difluorobenzene (Surr)	94		70 - 130			06/16/21 10:17	06/17/21 05:45	1

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Lab Sample ID: 890-806-5

Project/Site: PLU North Frac Pond

Job ID: 890-806-1

SDG: Eddy County

Lab Sample ID: 890-806-5

Matrix: Solid

Client Sample ID: SS05 Date Collected: 06/14/21 13:15

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		06/16/21 13:46	06/20/21 15:46	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		06/16/21 13:46	06/20/21 15:46	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/16/21 13:46	06/20/21 15:46	1
Total TPH	<49.8	U	49.8	mg/Kg		06/16/21 13:46	06/20/21 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			06/16/21 13:46	06/20/21 15:46	1
o-Terphenyl	84		70 - 130			06/16/21 13:46	06/20/21 15:46	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	17800		248	mg/Kg			06/17/21 20:19	50

Client Sample ID: SS06 Lab Sample ID: 890-806-6 **Matrix: Solid**

Date Collected: 06/14/21 13:26 Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Chloride

Method: 8021B - Volatile Organic Compounds (GC)

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 06:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 06:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 06:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/16/21 10:17	06/17/21 06:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/17/21 06:05	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		06/16/21 10:17	06/17/21 06:05	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		06/16/21 10:17	06/17/21 06:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surroyale			70 - 130			06/16/21 10:17	06/17/21 06:05	
4-Bromofluorobenzene (Surr)	108		10 - 130					
	95 ge Organics (DI	RO) (GC) Qualifier	70 - 130 70 - 130 RL	Unit	D	06/16/21 10:17 Prepared	06/17/21 06:05 Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang	95 ge Organics (DI	, , ,	70 - 130					
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang	95 ge Organics (DI	Qualifier	70 - 130	Unit mg/Kg	<u>D</u>			Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	95 ge Organics (DI Result	Qualifier U	70 ₋ 130		<u>D</u>	Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI Result <49.7	Qualifier U	70 - 130 RL 49.7	mg/Kg	<u>D</u>	Prepared 06/16/21 13:46	Analyzed 06/20/21 16:07	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	95 ge Organics (DI Result <49.7	Qualifier U U	70 - 130 RL 49.7	mg/Kg	<u>D</u>	Prepared 06/16/21 13:46 06/16/21 13:46	Analyzed 06/20/21 16:07	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	95 ge Organics (DI Result <49.7 <49.7	Qualifier U U U U	70 - 130 RL 49.7 49.7	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 06/16/21 13:46 06/16/21 13:46 06/16/21 13:46	Analyzed 06/20/21 16:07 06/20/21 16:07 06/20/21 16:07	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	95 ge Organics (DI Result <49.7 <49.7 <49.7 <49.7	Qualifier U U U U	70 - 130 RL 49.7 49.7 49.7 49.7	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 06/16/21 13:46 06/16/21 13:46 06/16/21 13:46 06/16/21 13:46	Analyzed 06/20/21 16:07 06/20/21 16:07 06/20/21 16:07 06/20/21 16:07	Dil Fa

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06/17/21 20:25

49.8

mg/Kg

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-806-1 Project/Site: PLU North Frac Pond SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-806-1	SS01	105	92	
890-806-2	SS02	124	93	
890-806-3	SS03	107	92	
890-806-4	SS04	107	93	
890-806-5	SS05	119	94	
890-806-6	SS06	108	95	
LCS 880-4169/1-A	Lab Control Sample	115	103	
LCSD 880-4169/2-A	Lab Control Sample Dup	124	104	
MB 880-4155/5-A	Method Blank	88	90	
MB 880-4169/5-A	Method Blank	98	90	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-806-1	SS01	85	73	
890-806-1 MS	SS01	81	64 S1-	
890-806-1 MSD	SS01	84	69 S1-	
890-806-2	SS02	79	66 S1-	
890-806-3	SS03	83	72	
890-806-4	SS04	83	70	
390-806-5	SS05	95	84	
890-806-6	SS06	91	89	
_CS 880-4196/2-A	Lab Control Sample	89	74	
_CSD 880-4196/3-A	Lab Control Sample Dup	105	88	
MB 880-4196/1-A	Method Blank	91	84	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Project/Site: PLU North Frac Pond

Job ID: 890-806-1 SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4155/5-A

Lab Sample ID: MB 880-4169/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 4156

Analysis Batch: 4156

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4155

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/16/21 08:28	06/16/21 11:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/21 08:28	06/16/21 11:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/21 08:28	06/16/21 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/16/21 08:28	06/16/21 11:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/21 08:28	06/16/21 11:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/16/21 08:28	06/16/21 11:47	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/16/21 08:28	06/16/21 11:47	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130		06/16/21 08:28	06/16/21 11:47	1
1,4-Difluorobenzene (Surr)	90		70 - 130	C	06/16/21 08:28	06/16/21 11:47	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4169

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/16/21 23:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/16/21 23:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/16/21 23:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/16/21 10:17	06/16/21 23:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:17	06/16/21 23:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/16/21 10:17	06/16/21 23:16	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/16/21 10:17	06/16/21 23:16	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/16/21 10:17	06/16/21 23:16	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/16/21 10:17	06/16/21 23:16	1

Lab Sample ID: LCS 880-4169/1-A

Matrix: Solid

Analysis Batch: 4156

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 4169

%Rec.
fier Unit D %Rec Limits
mg/Kg 101 70 - 130
mg/Kg 98 70 ₋ 130
mg/Kg 103 70 - 130
mg/Kg 111 70 - 130
mg/Kg 115 70 - 130
Fi

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client: WSP USA Inc. Project/Site: PLU North Frac Pond

Job ID: 890-806-1

SDG: Eddy County

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

Lab Sample ID: LCSD 880-4169/2-A

Matrix: Solid Analysis Batch: 4156

Client	Sample	ID:	Lab	Control	Sample	Dup

Prep Type: Total/NA Prep Batch: 4169

RPD RPD Limit Unit %Rec Limits mg/Kg 101 70 - 130 0 35 35

Toluene	0.100	0.09782	mg/Kg	98	70 - 130	0	35
Ethylbenzene	0.100	0.1042	mg/Kg	104	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2249	mg/Kg	112	70 - 130	2	35
o-Xylene	0.100	0.1160	mg/Kg	116	70 - 130	1	35
LCSD LCSD							

LCSD LCSD

0.1009

Result Qualifier

Spike

Added

0.100

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-4196/1-A Client Sample ID: Method Blank

Matrix: Solid

Analyte

Benzene

Analysis Batch: 4362

Prep Type: Total/NA

Prep Batch: 4196

MB MB Result Qualifier RL Unit D Analyzed Dil Fac Analyte Prepared <50.0 U Gasoline Range Organics 50.0 mg/Kg 06/16/21 13:46 06/20/21 12:32 (GRO)-C6-C10 06/20/21 12:32 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 06/16/21 13:46 C10-C28) <50.0 U 50.0 06/16/21 13:46 06/20/21 12:32 OII Range Organics (Over C28-C36) mg/Kg Total TPH 06/20/21 12:32 <50.0 U 50.0 06/16/21 13:46 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	06/16/21 13:4	6 06/20/21 12:32	1
o-Terphenyl	84		70 - 130	06/16/21 13:4	6 06/20/21 12:32	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-4196/2-A

Matrix: Solid

Analysis Batch: 4362

Prep Type: Total/NA Prep Batch: 4196

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	 1000	889.5		mg/Kg	_	89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	845.6		mg/Kg		85	70 - 130	
C10-C28)								

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenvl	74		70 - 130

Lab Sample ID: LCSD 880-4196/3-A

Matrix: Solid

Analysis Batch: 4362

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 4196

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1049 mg/Kg 105 70 - 130 16

(GRO)-C6-C10

Project/Site: PLU North Frac Pond

Job ID: 890-806-1 SDG: Eddy County

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

Lab Sample ID: LCSD 880-4196/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 4362** Prep Batch: 4196 **RPD**

Spike LCSD LCSD %Rec. Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D 1000 1011 101 70 - 130 18 20 Diesel Range Organics (Over mg/Kg

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-806-1 MS **Client Sample ID: SS01**

Analysis Batch: 4362

Matrix: Solid Prep Type: Total/NA

Prep Batch: 4196

MS MS %Rec. Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits <49.7 U 999 898.6 88 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.7 U 999 799.3 mg/Kg 80 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 81 70 - 130 o-Terphenyl 64 S1-70 - 130

Lab Sample ID: 890-806-1 MSD

Matrix: Solid

Analysis Batch: 4362

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 4196

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline Range Organics <49.7 U 997 910.2 mg/Kg 89 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.7 U 997 863.9 87 70 - 130 20 mg/Kg C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	69	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4207/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 4255

MB MB

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	J	5.00	mg/Kg			06/17/21 18:43	1

Lab Sample ID: LCS 880-4207/2-A

Matrix: Solid

Analysis Batch: 4255

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	234.9		mg/Kg		94	90 - 110	

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Client Sample ID: Lab Control Sample **Prep Type: Soluble**

QC Sample Results

Client: WSP USA Inc. Job ID: 890-806-1 Project/Site: PLU North Frac Pond

SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-4207/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 4255

Spike LCSD LCSD %Rec. RPD Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Chloride 252 234.6 mg/Kg 93 90 - 110

Lab Sample ID: 890-806-6 MS **Client Sample ID: SS06 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 4255

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec Chloride 7790 2490 10450 mg/Kg 107 90 - 110

Lab Sample ID: 890-806-6 MSD Client Sample ID: SS06 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 4255

MSD MSD %Rec. RPD Sample Sample Spike

Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 7790 2490 10540 110 90 - 110 20 mg/Kg

QC Association Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-806-1 SDG: Eddy County

- ,

GC VOA

Prep Batch: 4155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4155/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 4156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-806-1	SS01	Total/NA	Solid	8021B	4169
890-806-2	SS02	Total/NA	Solid	8021B	4169
890-806-3	SS03	Total/NA	Solid	8021B	4169
890-806-4	SS04	Total/NA	Solid	8021B	4169
890-806-5	SS05	Total/NA	Solid	8021B	4169
890-806-6	SS06	Total/NA	Solid	8021B	4169
MB 880-4155/5-A	Method Blank	Total/NA	Solid	8021B	4155
MB 880-4169/5-A	Method Blank	Total/NA	Solid	8021B	4169
LCS 880-4169/1-A	Lab Control Sample	Total/NA	Solid	8021B	4169
LCSD 880-4169/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4169

Prep Batch: 4169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-806-1	SS01	Total/NA	Solid	5035	
890-806-2	SS02	Total/NA	Solid	5035	
890-806-3	SS03	Total/NA	Solid	5035	
890-806-4	SS04	Total/NA	Solid	5035	
890-806-5	SS05	Total/NA	Solid	5035	
890-806-6	SS06	Total/NA	Solid	5035	
MB 880-4169/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4169/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4169/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 4196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-806-1	SS01	Total/NA	Solid	8015NM Prep	
890-806-2	SS02	Total/NA	Solid	8015NM Prep	
890-806-3	SS03	Total/NA	Solid	8015NM Prep	
890-806-4	SS04	Total/NA	Solid	8015NM Prep	
890-806-5	SS05	Total/NA	Solid	8015NM Prep	
890-806-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-4196/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4196/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4196/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-806-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-806-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-806-1	SS01	Total/NA	Solid	8015B NM	4196
890-806-2	SS02	Total/NA	Solid	8015B NM	4196
890-806-3	SS03	Total/NA	Solid	8015B NM	4196
890-806-4	SS04	Total/NA	Solid	8015B NM	4196
890-806-5	SS05	Total/NA	Solid	8015B NM	4196
890-806-6	SS06	Total/NA	Solid	8015B NM	4196

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-806-1 Project/Site: PLU North Frac Pond SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 4362 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4196/1-A	Method Blank	Total/NA	Solid	8015B NM	4196
LCS 880-4196/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4196
LCSD 880-4196/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4196
890-806-1 MS	SS01	Total/NA	Solid	8015B NM	4196
890-806-1 MSD	SS01	Total/NA	Solid	8015B NM	4196

HPLC/IC

Leach Batch: 4207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-806-1	SS01	Soluble	Solid	DI Leach	
890-806-2	SS02	Soluble	Solid	DI Leach	
890-806-3	SS03	Soluble	Solid	DI Leach	
890-806-4	SS04	Soluble	Solid	DI Leach	
890-806-5	SS05	Soluble	Solid	DI Leach	
890-806-6	SS06	Soluble	Solid	DI Leach	
MB 880-4207/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4207/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4207/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-806-6 MS	SS06	Soluble	Solid	DI Leach	
890-806-6 MSD	SS06	Soluble	Solid	DI Leach	

Analysis Batch: 4255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-806-1	SS01	Soluble	Solid	300.0	4207
890-806-2	SS02	Soluble	Solid	300.0	4207
890-806-3	SS03	Soluble	Solid	300.0	4207
890-806-4	SS04	Soluble	Solid	300.0	4207
890-806-5	SS05	Soluble	Solid	300.0	4207
890-806-6	SS06	Soluble	Solid	300.0	4207
MB 880-4207/1-A	Method Blank	Soluble	Solid	300.0	4207
LCS 880-4207/2-A	Lab Control Sample	Soluble	Solid	300.0	4207
LCSD 880-4207/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4207
890-806-6 MS	SS06	Soluble	Solid	300.0	4207
890-806-6 MSD	SS06	Soluble	Solid	300.0	4207

Project/Site: PLU North Frac Pond

Job ID: 890-806-1 SDG: Eddy County

-----In ID: 000 000 4

Lab Sample ID: 890-806-1

Matrix: Solid

Date Collected: 06/14/21 12:35 Date Received: 06/14/21 15:51

Client Sample ID: SS01

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4169	06/16/21 10:17	KL	XEN MID
Total/NA	Analysis	8021B		1	4156	06/17/21 04:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 13:39	AJ	XEN MID
Soluble	Leach	DI Leach			4207	06/16/21 16:46	СН	XEN MID
Soluble	Analysis	300.0		50	4255	06/17/21 19:57	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-806-2

Date Collected: 06/14/21 12:38 Matrix: Solid

Date Received: 06/14/21 15:51

Soluble

Soluble

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4169	06/16/21 10:17	KL	XEN MID
Total/NA	Analysis	8021B		1	4156	06/17/21 04:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 14:42	AJ	XEN MID
Soluble	Leach	DI Leach			4207	06/16/21 16:46	CH	XEN MID
Soluble	Analysis	300.0		20	4255	06/17/21 20:03	CH	XEN MID

Client Sample ID: SS03 Lab Sample ID: 890-806-3

Date Collected: 06/14/21 12:52

Matrix: Solid

Date Received: 06/14/21 15:51

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab 5035 06/16/21 10:17 XEN MID Total/NA Prep 4169 KL 8021B XEN MID Total/NA Analysis 4156 06/17/21 05:04 KL 1 Total/NA 8015NM Prep 06/16/21 13:46 XEN MID Prep 4196 DM 06/20/21 15:03 Total/NA 8015B NM XEN MID Analysis 1 4362 AJ

Client Sample ID: SS04 Lab Sample ID: 890-806-4

50

Date Collected: 06/14/21 12:55

Date Received: 06/14/21 15:51

Matrix: Solid

06/16/21 16:46

06/17/21 20:08

СН

CH

4207

4255

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4169	06/16/21 10:17	KL	XEN MID
Total/NA	Analysis	8021B		1	4156	06/17/21 05:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 15:24	AJ	XEN MID
Soluble	Leach	DI Leach			4207	06/16/21 16:46	СН	XEN MID
Soluble	Analysis	300.0		50	4255	06/17/21 20:14	CH	XEN MID

Eurofins Xenco, Carlsbad

Leach

Analysis

DI Leach

300.0

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XEN MID

XEN MID

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-806-1 Project/Site: PLU North Frac Pond SDG: Eddy County

Client Sample ID: SS05

Lab Sample ID: 890-806-5 Date Collected: 06/14/21 13:15

Matrix: Solid

Date Received: 06/14/21 15:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4169	06/16/21 10:17	KL	XEN MID
Total/NA	Analysis	8021B		1	4156	06/17/21 05:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			4207	06/16/21 16:46	СН	XEN MID
Soluble	Analysis	300.0		50	4255	06/17/21 20:19	CH	XEN MID

Client Sample ID: SS06 Lab Sample ID: 890-806-6

Date Collected: 06/14/21 13:26 **Matrix: Solid**

Date Received: 06/14/21 15:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4169	06/16/21 10:17	KL	XEN MID
Total/NA	Analysis	8021B		1	4156	06/17/21 06:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			4207	06/16/21 16:46	CH	XEN MID
Soluble	Analysis	300.0		10	4255	06/17/21 20:25	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-806-1 Project/Site: PLU North Frac Pond SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

Method Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-806-1

SDG: Eddy County

Laboratory
XEN MID
XEN MID
XEN MID

Method **Method Description** Proto 8021B Volatile Organic Compounds (GC) SW84 8015B NM Diesel Range Organics (DRO) (GC) SW84 300.0 Anions, Ion Chromatography MCA¹ 5035 Closed System Purge and Trap SW846 XEN MID 8015NM Prep Microextraction SW846 XEN MID XEN MID DI Leach Deionized Water Leaching Procedure ASTM

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:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-806-1

SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-806-1	SS01	Solid	06/14/21 12:35	06/14/21 15:51	- 0.5
890-806-2	SS02	Solid	06/14/21 12:38	06/14/21 15:51	- 0.5
890-806-3	SS03	Solid	06/14/21 12:52	06/14/21 15:51	- 0.5
890-806-4	SS04	Solid	06/14/21 12:55	06/14/21 15:51	- 0.5
890-806-5	SS05	Solid	06/14/21 13:15	06/14/21 15:51	- 0.5
890-806-6	SS06	Solid	06/14/21 13:26	06/14/21 15:51	- 0.5

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CC 2094031001

6/21/2021

SAMPLE RECEIPT 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 Relinquished by: (Signature) Sample Custody Seals: Project Manager: Sampler's Name: Project Location Project Number: Company Name: Cooler Custody Seals: Total 200.7 / 6010 City, State ZIP: Circle Method(s) and Metal(s) to be analyzed Incident # Not assigned Project Name: Sample Identification 5503 00002 emperature (°C): 2000 1000 Received Intact: 0000 100Q Address: PO #: Edd y county 314 03236.013 (817) 683 Eatima Smith Micland ORATORIES RLU North tac Kalei Jennings 3300 North MSP USA 200.8 / 6020: Yes Yes G, Temp Blank: 2.0 N_O 4 Matrix N/A N/A 2503 79705 Sampled A Street Yes Received by: (Signature) Date Quote #: 2 7000 Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Correction Factor: 0129 8 Total Containers: Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crastbad, NM (432) 704-5440 MM CO. TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Thermometer ID 1235 Sampled 1326 1255 1252 3 5 1238 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Time Wet Ice: Email: Rush: Routine Due Date: Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Turn Around Kalei 10 (Yag Q Depth Company Name: Bill to: (if different City, State ZIP: Q o 8 Address: tennings@wsp.com Pres. 6-14-21155 **Number of Containers** Chain of Custody Date/Time Carlebaci, KUID TPH (EPA 8015) OHE L1+10 Moride (EPA 300) acioaxa Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Relinquished by: (Signature) 66 ANALYSIS REQUEST 890-806 Chain of Custody Deliverables: EDD Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Received by: (Signature) ス Se Work Order No: Ag Work Order Comments SiO2 Na Sr Tl Sn U V Zn ADaPT 🗆 1631 / 245.1 / 7470 / 7471 : Hg HNO3: HN TAT starts the day recevied by the lab, Zn Acetate+ NaOH: Zn HCL: H H2S04: H2 None: NO МеОН: Ме NaOH: Na Page **Preservative Codes** Sample Comments Other: received by 4:00pm Revised Date 022619 Rev. 2019 Date/Time 으

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E Lab

mpty Kit Relinquished by

elinquished by: elinquished by:

radust

Date/Time

Company

Time

Method of Shipment

6

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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 Monte

Months

Company Company

Received by:

Date/Time

Company Company

Ver: 11/01/2020

Cooler Temperature(s) °C and Other Remarks

elinquished by:

Custody Seal No

Deliverable Requested 1 II III IV

Other (specify)

Primary Deliverable Rank

Possible Hazard Identification

vote Since laboratory accreditations are subject to change Eurofins Xenco LLC places 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 naintain 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.

Carlsbad NM 88220 1089 N Canal St.

Phone 575-988-3199 Fax: 575-988-3199

(Sub Contract Lab)

Phone

E-Mail

Kramer Jessica

jessica kramer@eurofinset.com

State of Origin
New Mexico

Carrier Tracking No(s):

COC No. 890-262 1

NELAP - Louisiana NELAP - Texas

Analysis Requested

Preservation 890-806-1 Page 1 of 1

A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
H Ascorbic Acid
I Ice
J Di Water
K EDTA

ωπρποΖ≤

M Hexane
N None
D-AsNaO2
Na2O4S
Na2SO3
Na2S2O3

SSCO3
S H2SQ4
T - TSP Dodecahydrate
U Acetone
V MCAA

N ≷ < C

v pH 4-5 other (specify)

State Zip: TX 79701

Midland

211 W Florida Ave

Due Date Requested 6/18/2021

TAT Requested (days)

hipping/Receiving lient Information

ırofins Xenco

432-704-5440(Tel)

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89000004

roject #

Project Name[.] PLU North Frac Pond

SS01 (890-806-1)

6/14/21 6/14/21

Mountain 12 38

Solid

× × × ×

×

Solid Solid

12 35

Sample

(C=comp, G=grab)

O=waste/oil

Preservation Code

Sample

Matrix

Perform MS/MSD (Yes or No)

8021B/6036FP_Calc BTEX

Total Number of containers

8016MOD_NM/8016NM_S_Prep Full TPH

300_ORGFM_28D/DI_LEACH Chloride

Type

Sample Identification - Client ID (Lab ID)

SS06 (890-806-6) SS05 (890-806-5) SS04 (890-806-4) SS03 (890-806-3) SS02 (890-806-2)

6/14/21 6/14/21 6/14/21 6/14/21

Mountain Mountain 13 26

> Solid Solid Solid

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× × × × × ×

Mountain 13 15 Mountain 12 55 Mountain 12 52

Eurofins Xenco, Carlsbad

Chain of Custody Record

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eurofins |

Environment Testing

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Special Instructions/Note

Login Sample Receipt Checklist

Client: WSP USA Inc. Job

Job Number: 890-806-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Login Number: 806

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 <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-806-1 SDG Number: Eddy County

Login Number: 806
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 06/16/21 11:38 AM

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	

<6mm (1/4").



ANALYTICAL REPORT

Job Number: 890-916-1

SDG Number: 31403236.013.0129

Job Description: PLU North Frac Pond

For: WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, TX 75207

Attention: Dan Moir

Approved for release Jessica Kramer Project Manager 7/15/2021 2:47 PM

Jessica Kramer, Project Manager 1211 W. Florida Ave, Midland, TX, 79701 jessica.kramer@eurofinset.com 07/15/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

TNI LyBORATORY

07/08/2021 11:02

Client Sample Result Summary

Client: WSP USA Inc. Job ID: 890-916-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

> Lab Sample ID: 890-916-1 890-916-2 890-916-3 890-916-4 890-916-5 PH01A PH03 PH02 PH02A Client Sample ID: PH01 2 Depth: 1 Matrix: Solid Solid Solid Solid Solid 07/08/2021 10:34

07/08/2021 10:37

07/08/2021 10:13

Method: 8021B - Volatile Organic Compounds (GC)

Date Collected: 07/08/2021 10:11

	Prepared:	07/10/2021 1	1:25	07/10/2021 1	1:25	07/10/2021	11:25	07/10/2021 1	1:25	07/10/2021 1	1:25
	Analyzed:	07/12/2021 0	1:25	07/12/2021 0	1:46	07/12/2021	02:06	07/12/2021 0	2:26	07/12/2021 02	2:47
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00202 U	0.00202	<0.00200 U	0.00200	0.00828	0.00200	<0.00201 U	0.00201	<0.00199 U	0.00199
Toluene		<0.00202 U	0.00202	<0.00200 U	0.00200	0.00700	0.00200	<0.00201 U	0.00201	<0.00199 U	0.00199
Ethylbenzene		<0.00202 U	0.00202	<0.00200 U	0.00200	0.0394	0.00200	<0.00201 U	0.00201	<0.00199 U	0.00199
m-Xylene & p-Xylene		<0.00404 U	0.00404	<0.00401 U	0.00401	0.0259	0.00399	<0.00402 U	0.00402	<0.00398 U	0.00398
o-Xylene		<0.00202 U	0.00202	<0.00200 U	0.00200	0.00234	0.00200	<0.00201 U	0.00201	<0.00199 U	0.00199
Xylenes, Total		<0.00404 U	0.00404	<0.00401 U	0.00401	0.0282	0.00399	<0.00402 U	0.00402	<0.00398 U	0.00398
Total BTEX		<0.00404 U	0.00404	<0.00401 U	0.00401	0.0829	0.00399	<0.00402 U	0.00402	<0.00398 U	0.00398

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

	Prepared:	07/12/2021 1	3:48	07/12/2021 13	3:48	07/12/2021 13	3:48	07/12/2021 13	3:48	07/12/2021 13	3:48
	Analyzed:	07/14/2021 1	4:36	07/14/2021 19	9:47	07/14/2021 15	5:59	07/14/2021 16	3:20	07/14/2021 16	6:40
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Orga	nics	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
(GRO)-C6-C10											
Diesel Range Organic	s (Over	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
C10-C28)											
Oll Range Organics (0	Over	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
C28-C36)		4F0 0 LI	50.0	440.0.11	40.0	4EO O I I	50.0	4EO O I I	F0 0	440.0.11	40.0
Total TPH		<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyzed:	07/14/2021	1 19:37	07/14/2021	19:42	07/14/2021	19:48	07/14/2021	1 20:04	07/14/2021	l 11:53
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		1420	5.03	95.9	5.04	172	5.00	29.7	4.98	1620	25.1

07/08/2021 12:24

Client Sample Result Summary

Client: WSP USA Inc. Job ID: 890-916-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

> **Lab Sample ID:** 890-916-6 890-916-7 890-916-8 890-916-9 890-916-10 PH05A PH04 PH04A PH05 Client Sample ID: PH03A Depth: 2 Matrix: Solid Solid Solid Solid Solid Date Collected: 07/08/2021 11:04

07/08/2021 12:10

07/08/2021 12:22

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/10/2021 1	1:25	07/10/2021 1	5:13	07/10/2021 1	5:13	07/10/2021 1	5:13	07/10/2021 1	5:13
	Analyzed:	07/12/2021 03	3:07	07/11/2021 00	0:21	07/11/2021 00	0:41	07/11/2021 0	1:02	07/11/2021 01	1:23
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00201 U	0.00201	<0.00200 U	0.00200
Toluene		<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00201 U	0.00201	<0.00200 U	0.00200
Ethylbenzene		<0.00199 U	0.00199	<0.00200 U	0.00200	0.00199	0.00199	<0.00201 U	0.00201	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00398 U	0.00398	<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00402 U	0.00402	<0.00399 U	0.00399
o-Xylene		<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00201 U	0.00201	<0.00200 U	0.00200
Xylenes, Total		<0.00398 U	0.00398	<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00402 U	0.00402	<0.00399 U	0.00399
Total BTEX		<0.00398 U	0.00398	<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00402 U	0.00402	<0.00399 U	0.00399

07/08/2021 12:07

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

	Prepared:	07/12/2021 1	3:48	07/12/2021 13	3:48	07/12/2021 13	3:48	07/12/2021 13	3:48	07/12/2021 13	3:48
	Analyzed:	07/14/2021 1	7:01	07/14/2021 17	7:22	07/14/2021 17	7:43	07/14/2021 18	3:03	07/14/2021 18	3:24
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organ	ics	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
(GRO)-C6-C10											
Diesel Range Organics	(Over	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
C10-C28)											
Oll Range Organics (O	ver	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
C28-C36)											
Total TPH		<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyzed:	07/13/202	1 08:36	07/13/2021	08:41	07/13/2021	1 08:47	07/13/2021	1 08:52	07/13/2021	1 09:09
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		56.0	5.04	240	5.02	88.8	4.95	790	5.02	109	4.99

Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-916-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

 Lab Sample ID:
 890-916-11
 890-916-12

 Client Sample ID:
 PH06
 PH06A

 Depth:
 1
 2

 Matrix:
 Solid
 Solid

Date Collected: 07/08/2021 12:38 07/08/2021 12:40

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/10/2021 15	5:13	07/10/2021 15	5:13
	Analyzed:	07/11/2021 01	:43	07/11/2021 02	2:04
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00199 U	0.00199	<0.00198 U	0.00198
Toluene		<0.00199 U	0.00199	<0.00198 U	0.00198
Ethylbenzene		<0.00199 U	0.00199	<0.00198 U	0.00198
m-Xylene & p-Xylene		<0.00398 U	0.00398	<0.00397 U	0.00397
o-Xylene		<0.00199 U	0.00199	<0.00198 U	0.00198
Xylenes, Total		<0.00398 U	0.00398	<0.00397 U	0.00397
Total BTEX		<0.00398 U	0.00398	<0.00397 U	0.00397

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

	Prepared:	07/12/2021 13	3:48	07/12/2021 13	:48
	Analyzed:	07/14/2021 19	0:06	07/14/2021 19	:27
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organ	nics	<50.0 U	50.0	<50.0 U	50.0
(GRO)-C6-C10					
Diesel Range Organics	s (Over	<50.0 U	50.0	<50.0 U	50.0
C10-C28)					
Oll Range Organics (C	ver	<50.0 U	50.0	<50.0 U	50.0
C28-C36)					
Total TPH		<50.0 U	50.0	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:

 Analyzed:
 07/13/2021 20:25
 07/13/2021 20:42

 Analyte
 Unit/RL:
 mg/Kg
 RL
 mg/Kg
 RL

 Chloride
 1360
 4.99
 145
 5.03

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-920-1

Laboratory Sample Delivery Group: 31403236.013.0129

Client Project/Site: PLU North Frac Pond

For:

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

Attn: Dan Moir

MAMER

Authorized for release by: 7/16/2021 11:21:23 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 11/22/2021 1:50:39 PM

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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Client: WSP USA Inc.
Project/Site: PLU North Frac Pond

Laboratory Job ID: 890-920-1
SDG: 31403236.013.0129

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-920-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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 Colony Forming Unit CFU **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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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7/16/2021

Job ID: 890-920-1

Case Narrative

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Job ID: 890-920-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-920-1

Receipt

The samples were received on 7/9/2021 5:08 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 1.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS07 (890-920-1) and SS08 (890-920-2).

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.

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-920-1 SDG: 31403236.013.0129

SDG: 31403236.013.0129

Client Sample ID: SS07

Date Collected: 07/09/21 10:25 Date Received: 07/09/21 17:08

Sample Depth: - 0.5

Lab Sample ID: 890-920-1 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/13/21 14:47	07/13/21 23:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/13/21 14:47	07/13/21 23:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/13/21 14:47	07/13/21 23:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/13/21 14:47	07/13/21 23:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/13/21 14:47	07/13/21 23:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/13/21 14:47	07/13/21 23:40	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/13/21 14:47	07/13/21 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			07/13/21 14:47	07/13/21 23:40	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/13/21 14:47	07/13/21 23:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/14/21 14:16	07/16/21 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/21 14:16	07/16/21 04:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 14:16	07/16/21 04:16	1
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 14:16	07/16/21 04:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			07/14/21 14:16	07/16/21 04:16	1
o-Terphenyl	118		70 - 130			07/14/21 14:16	07/16/21 04:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Į	Chloride	7420	49.8	mg/Kg			07/15/21 09:27	10	

Client Sample ID: SS08

Date Collected: 07/09/21 10:27

Date Received: 07/09/21 17:08

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/14/21 00:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/14/21 00:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/14/21 00:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/13/21 14:47	07/14/21 00:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/14/21 00:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/13/21 14:47	07/14/21 00:01	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/13/21 14:47	07/14/21 00:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			07/13/21 14:47	07/14/21 00:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/13/21 14:47	07/14/21 00:01	1

Eurofins Xenco, Carlsbad

2

5

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Lab Sample ID: 890-920-2 Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-920-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: SS08 Lab Sample ID: 890-920-2

Date Collected: 07/09/21 10:27 Matrix: Solid Date Received: 07/09/21 17:08

Sample Depth: - 0.5

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		07/14/21 14:16	07/16/21 04:37	-
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		07/14/21 14:16	07/16/21 04:37	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 14:16	07/16/21 04:37	1
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 14:16	07/16/21 04:37	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	91		70 - 130			07/14/21 14:16	07/16/21 04:37	-
o-Terphenyl	108		70 - 130			07/14/21 14:16	07/16/21 04:37	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3010		25.2	mg/Kg			07/15/21 09:32	

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-920-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
ab Sample ID	Client Sample ID	(70-130)	(70-130)
390-920-1	SS07	104	102
390-920-2	SS08	108	102
CS 880-5105/1-A	Lab Control Sample	98	99
CSD 880-5105/2-A	Lab Control Sample Dup	110	92
MB 880-5105/5-A	Method Blank	104	96
Surrogate Legend			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-920-1	SS07	104	118	
890-920-2	SS08	91	108	
LCS 880-5191/2-A	Lab Control Sample	106	117	
LCSD 880-5191/3-A	Lab Control Sample Dup	109	123	
MB 880-5191/1-A	Method Blank	95	114	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc.

Job ID: 890-920-1

SDG: 31403236.013.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5105/5-A

Project/Site: PLU North Frac Pond

Matrix: Solid

Analysis Batch: 5113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5105

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/13/21 18:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/13/21 18:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/13/21 18:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/13/21 14:47	07/13/21 18:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/13/21 14:47	07/13/21 18:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/13/21 14:47	07/13/21 18:18	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/13/21 14:47	07/13/21 18:18	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	70 - 130	07/13/21 14:47	07/13/21 18:18	1
1,4-Difluorobenzene (Surr)	96	70 - 130	07/13/21 14:47	07/13/21 18:18	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 5113

Lab Sample ID: LCS 880-5105/1-A

Prep Type: Total/NA Prep Batch: 5105

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08695		mg/Kg		87	70 - 130	
Toluene	0.100	0.08904		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09480		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09077		mg/Kg		91	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1.4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-5105/2-A

Matrix: Solid

Analysis Batch: 5113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 5105

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07956		mg/Kg		80	70 - 130	9	35
Toluene	0.100	0.09252		mg/Kg		93	70 - 130	4	35
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2181		mg/Kg		109	70 - 130	13	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	15	35

LCSD LCSD

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-920-1 SDG: 31403236.013.0129 Project/Site: PLU North Frac Pond

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

Lab Sample ID: MB 880-5191/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA Analysis Batch: 5214 Prep Batch: 5191

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/14/21 14:16	07/15/21 22:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 14:16	07/15/21 22:01	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 14:16	07/15/21 22:01	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 14:16	07/15/21 22:01	1

	IVIB	MB					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	0	7/14/21 14:16	07/15/21 22:01	1
o-Terphenyl	114		70 - 130	07	7/14/21 14:16	07/15/21 22:01	1

Lab Sample ID: LCS 880-5191/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 5214** Prep Batch: 5191

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	778.2		mg/Kg		78	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	988.8		mg/Kg		99	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenvl	117		70 - 130

Lab Sample ID: LCSD 880-5191/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 5214 Prep Batch: 5191

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	 1000	801.3		mg/Kg		80	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	3	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	123		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5080/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5204

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/14/21 21:27	1

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-920-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-5080/2-A

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 5204

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	258.9		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-5080/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 5204

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	259.2		mg/Kg		104	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-920-1 SDG: 31403236.013.0129

GC VOA

Prep Batch: 5105

Lab Sample ID 890-920-1	Client Sample ID SS07	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
890-920-2	SS08	Total/NA	Solid	5035	
MB 880-5105/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5105/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5105/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-920-1	SS07	Total/NA	Solid	8021B	5105
890-920-2	SS08	Total/NA	Solid	8021B	5105
MB 880-5105/5-A	Method Blank	Total/NA	Solid	8021B	5105
LCS 880-5105/1-A	Lab Control Sample	Total/NA	Solid	8021B	5105
LCSD 880-5105/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5105

GC Semi VOA

Prep Batch: 5191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-920-1	SS07	Total/NA	Solid	8015NM Prep	
890-920-2	SS08	Total/NA	Solid	8015NM Prep	
MB 880-5191/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5191/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5191/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method 8015B NM	Prep Batch
890-920-1 890-920-2	SS07 SS08	Total/NA Total/NA	Solid Solid	8015B NM 8015B NM	5191 5191
MB 880-5191/1-A	Method Blank	Total/NA	Solid	8015B NM	5191
LCS 880-5191/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5191
LCSD 880-5191/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5191

HPLC/IC

Leach Batch: 5080

Lab Sample ID 890-920-1	Client Sample ID SS07	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-920-2	SS08	Soluble	Solid	DI Leach	
MB 880-5080/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5080/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5080/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-920-1	SS07	Soluble	Solid	300.0	5080
890-920-2	SS08	Soluble	Solid	300.0	5080
MB 880-5080/1-A	Method Blank	Soluble	Solid	300.0	5080
LCS 880-5080/2-A	Lab Control Sample	Soluble	Solid	300.0	5080
LCSD 880-5080/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5080

Eurofins Xenco, Carlsbad

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Date Received: 07/09/21 17:08

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-920-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: SS07 Lab Sample ID: 890-920-1 Date Collected: 07/09/21 10:25

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 5035 Total/NA Prep 5105 07/13/21 14:47 MR XEN MID Total/NA Analysis 8021B 1 5113 07/13/21 23:40 MR XEN MID Total/NA Prep 8015NM Prep 5191 07/14/21 14:16 DM XEN MID Total/NA Analysis 8015B NM 1 5214 07/16/21 04:16 AJXEN MID Soluble Leach DI Leach 5080 07/12/21 10:19 СН XEN MID Soluble Analysis 300.0 10 5204 07/15/21 09:27 CH XEN MID

Client Sample ID: SS08 Lab Sample ID: 890-920-2

Date Collected: 07/09/21 10:27 Matrix: Solid Date Received: 07/09/21 17:08

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5204

07/15/21 09:32

CH

XEN MID

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 5105 07/13/21 14:47 MR XEN MID 8021B 07/14/21 00:01 Total/NA XEN MID Analysis 1 5113 MR Total/NA XEN MID Prep 8015NM Prep 5191 07/14/21 14:16 DM Total/NA 8015B NM XEN MID Analysis 1 5214 07/16/21 04:37 AJXEN MID Soluble Leach DI Leach 5080 07/12/21 10:19 СН

Laboratory References:

Analysis

Soluble

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

300.0

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-920-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Laboratory: Eurofins Xenco, Midland

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

Authority	Program		Identification Number	Expiration Date	
Texas	NE	NELAP T104704400-20-21		06-30-22	
The following analytes	are included in this report, but	t the laboratory is not cortifi	ed by the governing authority. This list ma	av include analytee fo	
the agency does not of	•	it the laboratory is not certifi	ed by the governing admonty. This list ha	ay include analytes to	
• •	•	Matrix	Analyte	ay include analytes lo	
the agency does not of	fer certification.	•		ay include analytes to	

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Method Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-920-1

SDG: 31403236.013.0129

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

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:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-920-1

SDG: 31403236.013.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-920-1	SS07	Solid	07/09/21 10:25	07/09/21 17:08	- 0.5
890-920-2	SS08	Solid	07/09/21 10:27	07/09/21 17:08	- 0.5

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Address: Company Name: Project Manager:

3300 North A Street

Kalei Jennings WSP USA Inc.

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Chain of Custody

Hobbs.NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Address: Bill to: (if different) City, State ZIP: Company Name: Kyle Littrell Carlsbad, NM 88220 3104 E Green Street XTO Energy Program: UST/PST ☐PRP ☐Brownfields ☐RC

Work Order No:

www.xenco.com

Work Order Comments

uperfund

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-920-1

SDG Number: 31403236.013.0129

Login Number: 920 List Source: Eurofins Xenco, Carlsbad

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 <6mm (1/4").	N/A	

Eurofins Xenco, Carlsbad

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-920-1

SDG Number: 31403236.013.0129

List Source: Eurofins Xenco, Midland

List Creation: 07/13/21 02:49 PM

Login Number: 920 List Number: 2 Creator: Lowe, Katie

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	

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-937-1

Laboratory Sample Delivery Group: 31403236.013.0129

Client Project/Site: PLU North Frac Pond

For:

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

Attn: Kalei Jennings

MAMER

Authorized for release by: 7/20/2021 8:01:33 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 11/22/2021 1:50:39 PM

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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Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Laboratory Job ID: 890-937-1

SDG: 31403236.013.0129

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-937-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC Qualifier

Indicates the analyte was analyzed for but not detected.

Qualifier Description

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit 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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Job ID: 890-937-1

Case Narrative

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Job ID: 890-937-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-937-1

Receipt

The samples were received on 7/13/2021 1:31 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 1.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH07 (890-937-1), PH07A (890-937-2) and PH07B (890-937-3)

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH07A (890-937-2) and (MB 880-5145/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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.

Matrix: Solid

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-937-1 SDG: 31403236.013.0129

Lab Sample ID: 890-937-1

Client Sample ID: PH07

Date Collected: 07/12/21 14:31 Date Received: 07/13/21 13:31

Sample Depth: - 0.5								
Method: 8021B - Volatile Or	ganic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 14:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 14:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 14:13	1

m-Xylene & p-Xylene <0.00398 U 0.00398 07/14/21 09:47 07/15/21 14:13 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 07/14/21 09:47 07/15/21 14:13 Xylenes, Total <0.00398 U 0.00398 mg/Kg 07/14/21 09:47 07/15/21 14:13 Total BTEX <0.00398 U 0.00398 07/14/21 09:47 07/15/21 14:13 mg/Kg

Limits Surrogate %Recovery Qualifier Prepared Dil Fac Analyzed 07/14/21 09:47 4-Bromofluorobenzene (Surr) 70 - 130 07/15/21 14:13 117 107 70 - 130 07/14/21 09:47 07/15/21 14:13 1,4-Difluorobenzene (Surr)

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

Result Qualifier Unit Dil Fac Analyte RL D Prepared Analyzed Gasoline Range Organics <49.9 U 49.9 mg/Kg 07/14/21 14:00 07/18/21 02:42 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 07/14/21 14:00 07/18/21 02:42 C10-C28) 07/14/21 14:00 07/18/21 02:42 OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg Total TPH <49.9 U 49.9 mg/Kg 07/14/21 14:00 07/18/21 02:42

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 123 70 - 130 07/14/21 14:00 07/18/21 02:42 o-Terphenyl 134 S1+ 70 - 130 07/14/21 14:00 07/18/21 02:42

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 25.3 Chloride 1900 mg/Kg 07/19/21 16:54

Client Sample ID: PH07A

Date Collected: 07/12/21 14:34

Sample Depth: - 1

1,4-Difluorobenzene (Surr)

Released to Imaging: 11/22/2021 1:50:39 PM

Date Received: 07/13/21 13:31

54 S1-

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0138		0.00200	mg/Kg		07/14/21 09:47	07/15/21 14:38	1
Toluene	0.00938		0.00200	mg/Kg		07/14/21 09:47	07/15/21 14:38	1
Ethylbenzene	0.111		0.00200	mg/Kg		07/14/21 09:47	07/15/21 14:38	1
m-Xylene & p-Xylene	0.0568		0.00399	mg/Kg		07/14/21 09:47	07/15/21 14:38	1
o-Xylene	0.0328		0.00200	mg/Kg		07/14/21 09:47	07/15/21 14:38	1
Xylenes, Total	0.0896		0.00399	mg/Kg		07/14/21 09:47	07/15/21 14:38	1
Total BTEX	0.224		0.00399	mg/Kg		07/14/21 09:47	07/15/21 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65299	S1+	70 - 130			07/14/21 09:47	07/15/21 14:38	1

70 - 130

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07/15/21 14:38

07/14/21 09:47

Matrix: Solid

Lab Sample ID: 890-937-2

Matrix: Solid

Lab Sample ID: 890-937-2

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-937-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Client Sample ID: PH07A

Date Collected: 07/12/21 14:34 Date Received: 07/13/21 13:31

Sample Depth: - 1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		07/14/21 14:00	07/18/21 03:02	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		07/14/21 14:00	07/18/21 03:02	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/21 14:00	07/18/21 03:02	1
Total TPH	<49.9	U	49.9	mg/Kg		07/14/21 14:00	07/18/21 03:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/14/21 14:00	07/18/21 03:02	1
o-Terphenyl	133	S1+	70 - 130			07/14/21 14:00	07/18/21 03:02	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		5.01	mg/Kg			07/19/21 16:59	1

Client Sample ID: PH07B

Date Collected: 07/12/21 14:37

Lab Sample ID: 890-937-3

Matrix: Solid

Date Collected: 07/12/21 14:37 Date Received: 07/13/21 13:31

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/14/21 09:47	07/15/21 15:03	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/14/21 09:47	07/15/21 15:03	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/14/21 09:47	07/15/21 15:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/14/21 09:47	07/15/21 15:03	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/14/21 09:47	07/15/21 15:03	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		07/14/21 09:47	07/15/21 15:03	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/14/21 09:47	07/15/21 15:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			07/14/21 09:47	07/15/21 15:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/14/21 09:47	07/15/21 15:03	1
Method: 8015B NM - Diesel Ranç Analyte	• •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mothod: 2045D NM Discal Done	na Ormaniaa (D)	BO) (CC)						
Analyte	Result	Qualifier			<u>D</u>			
Analyte Gasoline Range Organics	• •	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared 07/14/21 14:00	Analyzed 07/18/21 03:23	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U	50.0	mg/Kg	<u> </u>	07/14/21 14:00 07/14/21 14:00	07/18/21 03:23 07/18/21 03:23	1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	07/14/21 14:00	07/18/21 03:23	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 14:00 07/14/21 14:00 07/14/21 14:00	07/18/21 03:23 07/18/21 03:23 07/18/21 03:23 07/18/21 03:23	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 14:00 07/14/21 14:00 07/14/21 14:00 07/14/21 14:00	07/18/21 03:23 07/18/21 03:23 07/18/21 03:23	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 14:00 07/14/21 14:00 07/14/21 14:00 07/14/21 14:00 Prepared	07/18/21 03:23 07/18/21 03:23 07/18/21 03:23 07/18/21 03:23 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 14:00 07/14/21 14:00 07/14/21 14:00 07/14/21 14:00 Prepared 07/14/21 14:00	07/18/21 03:23 07/18/21 03:23 07/18/21 03:23 07/18/21 03:23 Analyzed 07/18/21 03:23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/14/21 14:00 07/14/21 14:00 07/14/21 14:00 07/14/21 14:00 Prepared 07/14/21 14:00	07/18/21 03:23 07/18/21 03:23 07/18/21 03:23 07/18/21 03:23 Analyzed 07/18/21 03:23	Dil Fac Dil Fac Dil Fac Dil Fac

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DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Job ID: 890-937-1 Client: WSP USA Inc. Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-937-1	PH07	117	107	
390-937-2	PH07A	65299	54 S1-	
		S1+		
90-937-3	PH07B	105	102	
CS 880-5145/1-A	Lab Control Sample	97	108	
.CSD 880-5145/2-A	Lab Control Sample Dup	93	103	
MB 880-5145/5-A	Method Blank	64 S1-	87	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-937-1	PH07	123	134 S1+	
90-937-2	PH07A	120	133 S1+	
90-937-3	PH07B	120	130	
.CS 880-5138/2-A	Lab Control Sample	110	108	
CSD 880-5138/3-A	Lab Control Sample Dup	95	94	
/IB 880-5138/1-A	Method Blank	91	100	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc.

Job ID: 890-937-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5145/5-A

Matrix: Solid

Analysis Batch: 5206

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5145

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 11:42	
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 11:42	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 11:42	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/21 09:47	07/15/21 11:42	
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 11:42	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/21 09:47	07/15/21 11:42	
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/14/21 09:47	07/15/21 11:42	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	07/14/21 09:47	07/15/21 11:42	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/14/21 09:4	7 07/15/21 11:42	1

Lab Sample ID: LCS 880-5145/1-A

Matrix: Solid

Analysis Batch: 5206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5145

	Бріке	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier	Unit D	%Rec	Limits	
Benzene	0.100	0.09288		mg/Kg	93	70 - 130	
Toluene	0.100	0.08881		mg/Kg	89	70 - 130	
Ethylbenzene	0.100	0.1006		mg/Kg	101	70 - 130	
m-Xylene & p-Xylene	0.200	0.1760		mg/Kg	88	70 - 130	
o-Xylene	0.100	0.09177		mg/Kg	92	70 - 130	

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LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1.4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: LCSD 880-5145/2-A

Matrix: Solid

Analysis Batch: 5206

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5145

S	Spike I	LCSD LCSD			%Rec.		RPD
Analyte Ac	dded F	Result Qualifier	Unit	D %Rec	Limits	RPD	Limit
Benzene	0.100	08785	mg/Kg	88	70 - 130	6	35
Toluene C	0.100 0.0	09379	mg/Kg	94	70 - 130	5	35
Ethylbenzene C	0.100 0.0	09612	mg/Kg	96	70 - 130	5	35
m-Xylene & p-Xylene 0	0.200 0	.1682	mg/Kg	84	70 - 130	5	35
o-Xylene C	0.100 0.0	08780	mg/Kg	88	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1.4-Difluorobenzene (Surr)	103		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-937-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

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

Lab Sample ID: MB 880-5138/1-A

Matrix: Solid

Analysis Batch: 5321 MD MD Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5138

	IVID	IVID							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/14/21 09:03	07/17/21 20:29	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/21 09:03	07/17/21 20:29	1	
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/21 09:03	07/17/21 20:29	1	
Total TPH	<50.0	U	50.0	mg/Kg		07/14/21 09:03	07/17/21 20:29	1	

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	07/14/21 09:03	07/17/21 20:29	1
o-Terphenyl	100		70 - 130	07/14/21 09:03	07/17/21 20:29	1

Lab Sample ID: LCS 880-5138/2-A

Matrix: Solid

Analysis Batch: 5321

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 5138

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	893.9		mg/Kg	_	89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1068		mg/Kg		107	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qu	ualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-5138/3-A

Matrix: Solid

Analysis Batch: 5321

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5138

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	800.6		mg/Kg		80	70 - 130	11	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	917.1		mg/Kg		92	70 - 130	15	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	94		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5282/1-A

Matrix: Solid

Analysis Batch: 5390

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL Unit D Prepared Dil Fac Analyzed Chloride <5.00 U 5.00 mg/Kg 07/19/21 14:32

Lab Sample ID: LCSD 880-5282/3-A

Matrix: Solid

QC Sample Results

Client: WSP USA Inc. Job ID: 890-937-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-5282/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** Analysis Batch: 5390

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 247.9 mg/Kg 99 90 - 110

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analysis Batch: 5390 Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 248.1 mg/Kg 99 90 - 110 0 20

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-937-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

GC VOA

Prep Batch: 5145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-937-1	PH07	Total/NA	Solid	5035	
890-937-2	PH07A	Total/NA	Solid	5035	
890-937-3	РН07В	Total/NA	Solid	5035	
MB 880-5145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-937-1	PH07	Total/NA	Solid	8021B	5145
890-937-2	PH07A	Total/NA	Solid	8021B	5145
890-937-3	РН07В	Total/NA	Solid	8021B	5145
MB 880-5145/5-A	Method Blank	Total/NA	Solid	8021B	5145
LCS 880-5145/1-A	Lab Control Sample	Total/NA	Solid	8021B	5145
LCSD 880-5145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5145

GC Semi VOA

Prep Batch: 5138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-937-1	PH07	Total/NA	Solid	8015NM Prep	
890-937-2	PH07A	Total/NA	Solid	8015NM Prep	
890-937-3	PH07B	Total/NA	Solid	8015NM Prep	
MB 880-5138/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5138/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5138/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-937-1	PH07	Total/NA	Solid	8015B NM	5138
890-937-2	PH07A	Total/NA	Solid	8015B NM	5138
890-937-3	PH07B	Total/NA	Solid	8015B NM	5138
MB 880-5138/1-A	Method Blank	Total/NA	Solid	8015B NM	5138
LCS 880-5138/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5138
LCSD 880-5138/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5138

HPLC/IC

Leach Batch: 5282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-937-1	PH07	Soluble	Solid	DI Leach	
890-937-2	PH07A	Soluble	Solid	DI Leach	
890-937-3	PH07B	Soluble	Solid	DI Leach	
MB 880-5282/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5282/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5282/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-937-1	PH07	Soluble	Solid	300.0	5282
890-937-2	PH07A	Soluble	Solid	300.0	5282
890-937-3	PH07B	Soluble	Solid	300.0	5282

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QC Association Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

HPLC/IC (Continued)

Analysis Batch: 5390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5282/1-A	Method Blank	Soluble	Solid	300.0	5282
LCS 880-5282/2-A	Lab Control Sample	Soluble	Solid	300.0	5282
LCSD 880-5282/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5282

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Date Received: 07/13/21 13:31

Client: WSP USA Inc.

Job ID: 890-937-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: PH07 Lab Sample ID: 890-937-1 Date Collected: 07/12/21 14:31

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 14:13	MR	XEN MID
Total/NA	Prep	8015NM Prep			5138	07/14/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/18/21 02:42	AJ	XEN MID
Soluble	Leach	DI Leach			5282	07/16/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		5	5390	07/19/21 16:54	CH	XEN MID

Client Sample ID: PH07A Lab Sample ID: 890-937-2

Date Collected: 07/12/21 14:34 **Matrix: Solid** Date Received: 07/13/21 13:31

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 5145 07/14/21 09:47 MR XEN MID Total/NA 8021B Analysis 5206 07/15/21 14:38 MR XEN MID 1 Total/NA Prep 8015NM Prep 07/14/21 14:00 XEN MID 5138 DM Total/NA 8015B NM XEN MID Analysis 1 5321 07/18/21 03:02 ΑJ Soluble XEN MID Leach DI Leach 5282 07/16/21 12:09 СН XEN MID Soluble Analysis 300.0 1 5390 07/19/21 16:59 CH

Client Sample ID: PH07B Lab Sample ID: 890-937-3

Date Collected: 07/12/21 14:37 **Matrix: Solid** Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 15:03	MR	XEN MID
Total/NA	Prep	8015NM Prep			5138	07/14/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/18/21 03:23	AJ	XEN MID
Soluble	Leach	DI Leach			5282	07/16/21 12:09	СН	XEN MID
Soluble	Analysis	300.0		1	5390	07/19/21 17:05	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-937-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Laboratory: Eurofins Xenco, Midland

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

		ogram	Identification Number	Expiration Date	
		ELAP	T104704400-20-21	06-30-22	
The following analytee	are included in this report by	it the laboratory is not certifi	ied by the governing authority. This list ma	avinaliska analiskaa fi	
the agency does not of	fer certification.	•	, , ,	ay include arialytes id	
,		Matrix	Analyte	ay include analytes id	
the agency does not of	fer certification.	•	, , ,	ay include analytes it	

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Method Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-937-1

SD

OG: 31403236.013.0129	

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

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:

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

Eurofins Xenco, Carlsbad

Released to Imaging: 11/22/2021 1:50:39 PM

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-937-1

SDG: 31403236.013.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-937-1	PH07	Solid	07/12/21 14:31	07/13/21 13:31	- 0.5
890-937-2	PH07A	Solid	07/12/21 14:34	07/13/21 13:31	- 1
890-937-3	PH07B	Solid	07/12/21 14:37	07/13/21 13:31	- 2

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Relinquished by: (Signature) Rece **Language** **Comparison of the comparison of	CITCIE METIOD(S) AND METAI(S) TO BE ANALYZED NOTICE: Signature of this document and with equivalent of samples constitutes a Valid purchase order from client company to Xenco, its affiliates and subcontractors 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 a 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 a	Total 200.7 / 6010 200.8 / 6020:			PH07B S 7/12/2021	PH07A S 7/12/2021	PH07 S 7/12/2021	Sample Identification Matrix Sampled	Sample Custody Seals: Yes No N/A	Seals: Ye	(Yeg)	1.2/1.0	CEIDT	me: Luis Del Val		Project Number: 31403236.013.0129	Project Name: PLU North Frac Pond		e ZIP:	Address: 3300 North A Street		Project Manager: Kalei Jennings		XMZQ0
Received by: (Signature)	constitutes a valid purchase order from all not assume any responsibility for any et and a charge of \$5 for each sample s	8RCRA 13PPM Tex			2021 1437 2'	2021 1434 1'	2021 1431 0.5'	te Time Depth	Total Containers:	Correction Factor:	7 MM-307	Thermometer ID	No Wet lee!	Due Date:		Rc	nd Turn Aroynd	Email: uis.delval@	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Hobbs,NM (575-392-7550) Phoenix,	Houston,TX (281) 240-42
Date/Time Relinquished by: (Sign 7 - 13 2/ (33 kg 4 kg		Al Sb As Ba Be B Cd Ca Cr Co Cu BA Sh As Ba Be Cd Cr Co Cu Ph Mr			×	1 × × ×	1 × × ×	Number TPH (E	PA 8	015) 0=80 PA 30	21)	ers					ANALYSIS REQUEST	/sp.co			ne: XTO Energy	nt) Kyle Littrell	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
(Signature) Received by: (Signature)		Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn ∪ V						Samp	lab, if re	_	237 Chain of Custody				API: 3	IN: NA		Deliverables: EDD ADaPT Other:	Reporting:Level II		Program: UST/PST □PRP □ brownfields □RC	Work Order Comments	(813-620-2000) www.xenco.com Page	334
Date∕Time		Na Sr Tl Sn ∪ V Zn 1631 / 245.1 / 7470 / 7471 : Hq						Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the					API: 30-015-31687	IN: NAPP2116030736	Work Order Notes	er:	Vel IV]]	□uperfund □		of 1	<i>></i>

1089 N Canal St Carlsbad, NM 88220 Phone 575-988-3199 Fax

Eurofins Xenco, Carlsbad

Chain of Custody Record

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Company Eurofins Xenco				2000	Accreditations Required (See note NELAP - Louisiana NELA)	Accreditations Required (Se	s Req	ana (S	ee no	e note)) SEA		I ACAN INICAICO	3	`				Job #	Job #:	^م ا -	ł	1				
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Phone 432-704-5440(Tel)	PO#:				0)	ТРН	de											ander	ت ت	MeOH Amchlor	를 ^교	ï		Na2S2O3	i z		
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Project Name. PLU North Frac Pond	Project #: 89000004				notion in your	230,36000	ACH	EX								·		ainer		EDTA EDA				pH 4-5 other (specify)	vecify)		·
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		Sample	Sample Type (C=comp,	(W=water S=soiid, O=waste/oil, BT=Tissue,	ld Filtered rform MS/I	5MOD_NM/	_ORGFM_2	1B/5035FP_			· · · · · · · · · · · · · · · · · · ·						······································	al Numbe									·
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PH07 (890-937-1)	7/12/21 _N	14 31 Nountain		Solid		×	×	×								-		-48	iolinessadi								
PH07A (890-937-2)	7/12/21 _N	14 34 Mountain		Solid		×	×	×											.622.000		[١				
PH07B (890-937-3)	7/12/21	14 37 Mountain		Solid		×	×	×										*	April 1000			ļ					
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Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places 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.	places the ownership o being analyzed the san urn the signed Chain of	f method, an nples must b Custody atte	alyte & accredi e shipped back sting to said co	tation complia to the Eurofir mplicance to	nce upo ns Xenco Eurofins	o LLC	subcor labora o LLC	ntract l	aborato other ii	nies nstruct	his sa ons w	imple :	shipme	ent is	forwai iy cha	ded u	nder o	hain- redita	of-cus tion st	tody atus s	If the	labora be br	atory d	loes n	ot curr	ently	
Possible Hazard Identification Unconfirmed					ပ္ပ	Sample Disposal (Return To Cli	e Dis	le Disposal (Af Return To Client	(A fee	8	may be assessed if samples are retained longer Disposal By Lab Archive For	ass Dis	assessed if san Disposal Bv Lab	d if	sam,	oles	□are	etai	tained long	For	er than	-4	month)	nth)	^		
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Custody Seals Intact: Custody Seal No ∆ Yes △ No						Coo	ler Tei	Cooler Temperature(s) °C and Other Remarks	re(s)	°C and	Other	Rema	쟋		l				ļ		İ			J	1		

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-937-1

SDG Number: 31403236.013.0129

Login Number: 937 List Source: Eurofins Xenco, Carlsbad

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 ampered with.	True	
Samples were received on ice.	True	
ooler 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	
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	
ontainers are not broken or leaking.	True	
ample collection date/times are provided.	True	
ppropriate sample containers are used.	True	
ample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
here is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Released to Imaging: 11/22/2021 1:50:39 PM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-937-1

SDG Number: 31403236.013.0129

List Source: Eurofins Xenco, Midland

List Creation: 07/14/21 11:15 AM

List Number: 2 Creator: Copeland, Tatiana

Login Number: 937

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	

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-938-1

Laboratory Sample Delivery Group: 31403236.013.0129

Client Project/Site: PLU North Frac Pond

For:

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

Attn: Dan Moir

J. KRAMER

Authorized for release by: 7/20/2021 8:03:20 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

Review your project

results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 11/22/2021 1:50:39 PM

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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Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Laboratory Job ID: 890-938-1

SDG: 31403236.013.0129

Table of Contents

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QC Association Summary	26
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Method Summary	36
Sample Summary	37
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Qualifiers

GC VOA Qualifier

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

EDL

TEQ

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)

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)

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) Method Detection Limit

MDL Minimum Level (Dioxin) ML 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

Presumptive **PRES** 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)

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

Case Narrative

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-938-1

SDG: 31403236.013.0129

Job ID: 890-938-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-938-1

Receipt

The samples were received on 7/13/2021 1:31 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 1.0°C

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-5187 and analytical batch 880-5148 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-5145/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-5206 recovered above the upper control limit for Ethylbenzene and Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: FS02 (890-938-2) and (CCV 880-5206/51).

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.

Client: WSP USA Inc.

Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Cli

Dat Date Received: 07/13/21 13:31

Sample Depth: - 1

lient Sample ID: FS01	Lab Sample ID: 890-938-1
ate Collected: 07/12/21 12:27	Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/15/21 15:29	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/15/21 15:29	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/15/21 15:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/14/21 09:47	07/15/21 15:29	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/15/21 15:29	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/14/21 09:47	07/15/21 15:29	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		07/14/21 09:47	07/15/21 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/14/21 09:47	07/15/21 15:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/14/21 09:47	07/15/21 15:29	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/15/21 08:43	07/17/21 14:12	1		
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/15/21 08:43	07/17/21 14:12	1		
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/15/21 08:43	07/17/21 14:12	1		
Total TPH	<49.8	U	49.8	mg/Kg		07/15/21 08:43	07/17/21 14:12	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane	97		70 - 130			07/15/21 08:43	07/17/21 14:12	1		
o-Terphenyl	106		70 - 130			07/15/21 08:43	07/17/21 14:12	1		

Method: 300.0 - Anions, Ion Chro	matography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	506	5.00	mg/Kg			07/19/21 17:10	1

Client Sample ID: FS02 Lab Sample ID: 890-938-2 Date Collected: 07/12/21 12:33

Date Received: 07/13/21 13:31

Released to Imaging: 11/22/2021 1:50:39 PM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/14/21 13:15	07/16/21 10:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/14/21 13:15	07/16/21 10:50	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/14/21 13:15	07/16/21 10:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/14/21 13:15	07/16/21 10:50	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/14/21 13:15	07/16/21 10:50	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/14/21 13:15	07/16/21 10:50	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/14/21 13:15	07/16/21 10:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			07/14/21 13:15	07/16/21 10:50	1
1,4-Difluorobenzene (Surr)	101		70 - 130			07/14/21 13:15	07/16/21 10:50	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Sample Depth: - 1

Matrix: Solid

Lab Sample ID: 890-938-2

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Client Sample ID: FS02

Date Collected: 07/12/21 12:33 Date Received: 07/13/21 13:31

Sample Depth: - 1

Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		07/15/21 08:43	07/17/21 14:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		07/15/21 08:43	07/17/21 14:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/15/21 08:43	07/17/21 14:33	1
Total TPH	<49.7	U	49.7	mg/Kg		07/15/21 08:43	07/17/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			07/15/21 08:43	07/17/21 14:33	1
o-Terphenyl	102		70 - 130			07/15/21 08:43	07/17/21 14:33	1
– Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.3		4.98	mg/Kg			07/19/21 17:16	1

Client Sample ID: FS03

Date Collected: 07/12/21 12:36

Lab Sample ID: 890-938-3

Matrix: Solid

Date Collected: 07/12/21 12:36 Date Received: 07/13/21 13:31

Released to Imaging: 11/22/2021 1:50:39 PM

Sample Depth: - 1

Benzene	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
benzene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/16/21 01:45	1
Toluene	< 0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/16/21 01:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/16/21 01:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/16/21 01:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/16/21 01:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/16/21 01:45	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/16/21 01:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			07/14/21 09:47	07/16/21 01:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130			07/14/21 09:47	07/16/21 01:45	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9		49.9	mg/Kg		07/15/21 08:43	07/17/21 14:54	,
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 14:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 14:54	
								1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 14:54	
	<49.9 %Recovery		49.9 Limits	mg/Kg		07/15/21 08:43 Prepared	07/17/21 14:54 Analyzed	1
Total TPH				mg/Kg				1 1 Dil Fac
Total TPH Surrogate	%Recovery		Limits	mg/Kg		Prepared	Analyzed	1
Total TPH Surrogate 1-Chlorooctane	%Recovery 94 102 ematography -	Qualifier	Limits 70 - 130	mg/Kg Unit	D	Prepared 07/15/21 08:43	Analyzed 07/17/21 14:54	Dil Fac

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Client: WSP USA Inc.

Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS04 Lab Sample ID: 890-938-4 Matrix: Solid

Date Collected: 07/12/21 12:38 Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/16/21 02:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/16/21 02:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/16/21 02:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/14/21 09:47	07/16/21 02:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/16/21 02:11	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/14/21 09:47	07/16/21 02:11	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		07/14/21 09:47	07/16/21 02:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			07/14/21 09:47	07/16/21 02:11	1
1,4-Difluorobenzene (Surr)	96		70 - 130			07/14/21 09:47	07/16/21 02:11	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		07/15/21 08:43	07/17/21 15:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 15:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 15:15	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 15:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			07/15/21 08:43	07/17/21 15:15	1
o-Terphenyl	98		70 - 130			07/15/21 08:43	07/17/21 15:15	1

Method: 300.0 - Anions, Ion Chron	natography - S	oluble						
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	413		4.95	mg/Kg			07/17/21 14:22	1

Client Sample ID: FS05 Lab Sample ID: 890-938-5 Date Collected: 07/12/21 12:41

Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/15/21 18:26	
Toluene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/15/21 18:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/15/21 18:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/15/21 18:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/15/21 18:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/15/21 18:26	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/15/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			07/14/21 09:47	07/15/21 18:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130			07/14/21 09:47	07/15/21 18:26	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-938-5

Client Sample Results

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS05

Date Collected: 07/12/21 12:41 Date Received: 07/13/21 13:31

Sample Depth: - 1

Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 15:36	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 15:36	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 15:36	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 15:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			07/15/21 08:43	07/17/21 15:36	1
o-Terphenyl	119		70 - 130			07/15/21 08:43	07/17/21 15:36	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		5.03	mg/Kg			07/17/21 14:27	1

Client Sample ID: FS06 Lab Sample ID: 890-938-6 Matrix: Solid

Date Collected: 07/12/21 14:16 Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 18:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 18:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 18:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/14/21 09:47	07/15/21 18:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 18:52	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		07/14/21 09:47	07/15/21 18:52	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/14/21 09:47	07/15/21 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/14/21 09:47	07/15/21 18:52	1
1,4-Difluorobenzene (Surr)	88		70 - 130			07/14/21 09:47	07/15/21 18:52	1
Method: 8015B NM - Diesel Rang Analyte	• •		RI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 07/45/04 00:40	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 07/15/21 08:43	Analyzed 07/17/21 15:57	Dil Fac
Analyte	Result	Qualifier U			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43	07/17/21 15:57 07/17/21 15:57	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	07/15/21 08:43	07/17/21 15:57	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43	07/17/21 15:57 07/17/21 15:57	1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	07/17/21 15:57 07/17/21 15:57 07/17/21 15:57	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	07/17/21 15:57 07/17/21 15:57 07/17/21 15:57 07/17/21 15:57	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 <i>Prepared</i>	07/17/21 15:57 07/17/21 15:57 07/17/21 15:57 07/17/21 15:57 Analyzed	1 1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared 07/15/21 08:43	07/17/21 15:57 07/17/21 15:57 07/17/21 15:57 07/17/21 15:57 Analyzed 07/17/21 15:57	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared 07/15/21 08:43	07/17/21 15:57 07/17/21 15:57 07/17/21 15:57 07/17/21 15:57 Analyzed 07/17/21 15:57	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client: WSP USA Inc.

Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client S

Date Co Date Received: 07/13/21 13:31

Sample Depth: - 1

t Sample ID: FS07	Lab Sample ID: 890-938-7
ollected: 07/12/21 14:19	Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 19:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 19:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 19:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/14/21 09:47	07/15/21 19:17	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 19:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/14/21 09:47	07/15/21 19:17	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/14/21 09:47	07/15/21 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			07/14/21 09:47	07/15/21 19:17	1
1,4-Difluorobenzene (Surr)	89		70 - 130			07/14/21 09:47	07/15/21 19:17	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		07/15/21 08:43	07/17/21 16:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 16:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 16:39	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 _ 130			07/15/21 08:43	07/17/21 16:39	1
o-Terphenvl	119		70 - 130			07/15/21 08:43	07/17/21 16:39	1

Method: 300.0 - Anions, Ion Chrom	atography - So	oluble						
Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	382		5.05	mg/Kg			07/17/21 14:38	1

Client Sample ID: FS08 Lab Sample ID: 890-938-8 Date Collected: 07/12/21 14:22 **Matrix: Solid**

Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 19:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 19:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 19:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/14/21 09:47	07/15/21 19:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/14/21 09:47	07/15/21 19:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/14/21 09:47	07/15/21 19:43	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/14/21 09:47	07/15/21 19:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/14/21 09:47	07/15/21 19:43	1
1,4-Difluorobenzene (Surr)	105		70 - 130			07/14/21 09:47	07/15/21 19:43	1

Matrix: Solid

Lab Sample ID: 890-938-8

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Client Sample ID: FS08

Date Collected: 07/12/21 14:22 Date Received: 07/13/21 13:31

Sample Depth: - 1

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 17:00	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 17:00	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 17:00	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			07/15/21 08:43	07/17/21 17:00	1
o-Terphenyl	100		70 - 130			07/15/21 08:43	07/17/21 17:00	1
— Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		5.01	mg/Kg			07/17/21 14:54	1

Client Sample ID: FS09

Date Collected: 07/12/21 14:25

Lab Sample ID: 890-938-9

Matrix: Solid

Date Collected: 07/12/21 14:25 Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/14/21 09:47	07/15/21 20:08	-
Toluene	<0.00198	U	0.00198	mg/Kg		07/14/21 09:47	07/15/21 20:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/14/21 09:47	07/15/21 20:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/14/21 09:47	07/15/21 20:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/14/21 09:47	07/15/21 20:08	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		07/14/21 09:47	07/15/21 20:08	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		07/14/21 09:47	07/15/21 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			07/14/21 09:47	07/15/21 20:08	1
1,4-Difluorobenzene (Surr)	84		70 - 130			07/14/21 09:47	07/15/21 20:08	1
Made at 0045D NM Dis 15	O	DO) (OO)						
Method: 8015B NM - Diesel Rang	je Organics (טו	RO) (GC)						
Method: 8015B NM - Diesel Rang Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier	RL 49.9	Mnit mg/Kg	<u>D</u>	Prepared 07/15/21 08:43	Analyzed 07/17/21 17:21	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	07/15/21 08:43	07/17/21 17:21	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43	07/17/21 17:21	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	07/17/21 17:21 07/17/21 17:21 07/17/21 17:21	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 07/17/21 17:21	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared	07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier Soluble	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared 07/15/21 08:43	07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 Analyzed 07/17/21 17:21	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared 07/15/21 08:43	07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 07/17/21 17:21 Analyzed 07/17/21 17:21	Dil Fac

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14

7/20/202

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS10

Date Collected: 07/12/21 14:38 Date Received: 07/13/21 13:31

Sample Depth: - 1

Lab Sample ID: 890-938-10

Matrix: Solid

5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 20:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 20:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 20:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/14/21 09:47	07/15/21 20:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/21 09:47	07/15/21 20:34	1
Xylenes, Total	< 0.00401	U	0.00401	mg/Kg		07/14/21 09:47	07/15/21 20:34	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/14/21 09:47	07/15/21 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			07/14/21 09:47	07/15/21 20:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/14/21 09:47	07/15/21 20:34	1
: : Method: 8015B NM - Diesel Ranç		RO) (GC)	70 - 700			0777 #27 00.77	07762720.07	·
			70 - 700			0777 11/27 00:17	01710/21 20:01	•
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	Prepared 07/15/21 08:43	Analyzed 07/17/21 17:41	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	Qualifier U	RL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	Prepared 07/15/21 08:43	Analyzed 07/17/21 17:41	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	Qualifier U U	RL 49.9	mg/Kg	<u>D</u>	Prepared 07/15/21 08:43 07/15/21 08:43	Analyzed 07/17/21 17:41 07/17/21 17:41	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	Analyzed 07/17/21 17:41 07/17/21 17:41 07/17/21 17:41	1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	ge Organics (D Result <49.9 <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	Analyzed 07/17/21 17:41 07/17/21 17:41 07/17/21 17:41 07/17/21 17:41	1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U U	RL 49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared	Analyzed 07/17/21 17:41 07/17/21 17:41 07/17/21 17:41 07/17/21 17:41 Analyzed	1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 <49.9 %Recovery 107 115	Qualifier U U U Qualifier	RL 49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared 07/15/21 08:43	Analyzed 07/17/21 17:41 07/17/21 17:41 07/17/21 17:41 07/17/21 17:41 Analyzed 07/17/21 17:41	1 1 1 1 1 1 1 Dil Fac

Client Sample ID: FS11 Lab Sample ID: 890-938-11 Date Collected: 07/12/21 14:31

5.00

mg/Kg

548

Date Received: 07/13/21 13:31

Sample Depth: - 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/15/21 20:59	
Toluene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/15/21 20:59	•
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/15/21 20:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/15/21 20:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/14/21 09:47	07/15/21 20:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/15/21 20:59	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/14/21 09:47	07/15/21 20:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			07/14/21 09:47	07/15/21 20:59	1
1,4-Difluorobenzene (Surr)	105		70 - 130			07/14/21 09:47	07/15/21 20:59	1

07/17/21 15:05

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-938-11

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Client Sample ID: FS11

Date Collected: 07/12/21 14:31 Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 18:02	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 18:02	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 18:02	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			07/15/21 08:43	07/17/21 18:02	1
o-Terphenyl	114		70 - 130			07/15/21 08:43	07/17/21 18:02	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS12

Date Collected: 07/12/21 14:34

Lab Sample ID: 890-938-12

Matrix: Solid

Date Collected: 07/12/21 14:34 Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/15/21 21:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/15/21 21:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/15/21 21:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/14/21 09:47	07/15/21 21:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/14/21 09:47	07/15/21 21:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/14/21 09:47	07/15/21 21:25	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/14/21 09:47	07/15/21 21:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/14/21 09:47	07/15/21 21:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130			07/14/21 09:47	07/15/21 21:25	1
Method: 8015B NM - Diesel Ranç Analyte			RI	Unit	n	Prenared	Analyzed	Dil Fac
Mothod: 0045D NM Discol Done	wa Ormaniaa (D)	BO) (CC)						
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 07/15/21 08:43	Analyzed 07/17/21 18:23	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	07/15/21 08:43	07/17/21 18:23	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u> </u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	07/15/21 08:43	07/17/21 18:23	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43	07/17/21 18:23 07/17/21 18:23	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	07/17/21 18:23 07/17/21 18:23 07/17/21 18:23	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 07/17/21 18:23	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 <i>Prepared</i>	07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 Analyzed	1 1 1 1 <i>Dil Fac</i>
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared 07/15/21 08:43	07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 Analyzed 07/17/21 18:23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 Prepared 07/15/21 08:43	07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 07/17/21 18:23 Analyzed 07/17/21 18:23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS13

Date Collected: 07/12/21 14:37 Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

m-Xylene & p-Xylene

Lab Sample ID: 890-938-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) Result Qualifier Dil Fac RL Unit D Prepared Analyzed <0.00200 U F1 0.00200 mg/Kg 07/14/21 13:09 07/15/21 05:46 <0.00200 UF1 0.00200 mg/Kg 07/14/21 13:09 07/15/21 05:46 0.00200 07/14/21 13:09 07/15/21 05:46 <0.00200 U mg/Kg 0.00399 07/14/21 13:09 07/15/21 05:46 < 0.00399 mg/Kg <0.00200 U 0.00200 07/14/21 13:09 07/15/21 05:46 mg/Kg <0.00399 U 0.00399 07/14/21 13:09 07/15/21 05:46 mg/Kg <0.00399 U 0.00399 07/14/21 13:09 07/15/21 05:46 mg/Kg

Limits Prepared Dil Fac Surrogate %Recovery Qualifier Analyzed 07/14/21 13:09 70 - 130 07/15/21 05:46 4-Bromofluorobenzene (Surr) 106 1,4-Difluorobenzene (Surr) 99 70 - 130 07/14/21 13:09 07/15/21 05:46

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

Result Qualifier Analyte RL Unit D Prepared Dil Fac Analyzed <50.0 U 50.0 07/15/21 08:43 07/17/21 18:44 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/15/21 08:43 07/17/21 18:44 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/15/21 08:43 07/17/21 18:44 Total TPH <50.0 U 50.0 mg/Kg 07/15/21 08:43 07/17/21 18:44

Surrogate Qualifier Limits Prepared Dil Fac %Recovery Analyzed 1-Chlorooctane 102 70 - 130 07/15/21 08:43 07/17/21 18:44 o-Terphenyl 109 70 - 130 07/15/21 08:43 07/17/21 18:44

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 1530 25.0 mg/Kg 07/18/21 20:40

Client Sample ID: FS14

Date Collected: 07/12/21 14:40 Date Received: 07/13/21 13:31

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac Benzene <0.00199 0.00199 mg/Kg 07/14/21 13:09 07/15/21 06:06 Toluene <0.00199 U 0.00199 mg/Kg 07/14/21 13:09 07/15/21 06:06 Ethylbenzene <0.00199 U 0.00199 mg/Kg 07/14/21 13:09 07/15/21 06:06 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 07/14/21 13:09 07/15/21 06:06 o-Xylene <0.00199 U 0.00199 mg/Kg 07/14/21 13:09 07/15/21 06:06 Xylenes, Total <0.00398 U 0.00398 mg/Kg 07/14/21 13:09 07/15/21 06:06 Total BTEX <0.00398 U 0.00398 mg/Kg 07/14/21 13:09 07/15/21 06:06 Qualifier Limits

Surrogate %Recovery Prepared Analyzed Dil Fac 110 70 - 130 07/14/21 13:09 07/15/21 06:06 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 102 70 - 130 07/14/21 13:09 07/15/21 06:06

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-938-14

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS14

Date Collected: 07/12/21 14:40 Date Received: 07/13/21 13:31

Sample Depth: - 1

Lab Sample ID: 890-938-14

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Analyzed Dil Fac Prepared 07/15/21 08:43 <49.9 U 49.9 07/17/21 19:05 Gasoline Range Organics mg/Kg (GRO)-C6-C10 07/15/21 08:43 07/17/21 19:05 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/15/21 08:43 07/17/21 19:05 Total TPH <49.9 U 49.9 mg/Kg 07/15/21 08:43 07/17/21 19:05 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 97 70 - 130 07/15/21 08:43 07/17/21 19:05 101 70 - 130 07/15/21 08:43 07/17/21 19:05 o-Terphenyl Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 1260 5.00 mg/Kg 07/17/21 15:38

Client Sample ID: FS15 Lab Sample ID: 890-938-15 **Matrix: Solid**

Date Collected: 07/12/21 14:43 Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/14/21 13:09	07/15/21 06:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/14/21 13:09	07/15/21 06:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/14/21 13:09	07/15/21 06:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/14/21 13:09	07/15/21 06:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/14/21 13:09	07/15/21 06:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/14/21 13:09	07/15/21 06:27	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/14/21 13:09	07/15/21 06:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			07/14/21 13:09	07/15/21 06:27	1
1,4-Difluorobenzene (Surr)	102		70 - 130			07/14/21 13:09	07/15/21 06:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 19:26	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 19:26	1
Total TPH	<49.9	U	49.9	mg/Kg		07/15/21 08:43	07/17/21 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			07/15/21 08:43	07/17/21 19:26	1
o-Terphenyl	113		70 - 130			07/15/21 08:43	07/17/21 19:26	1

Wethod: 300.0 - Anions, ion Chrom	latograpny - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	195	5.00	mg/Kg			07/17/21 15:44	1

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS16

Date Collected: 07/12/21 14:46 Date Received: 07/13/21 13:31

Sample Depth: - 1

Lab	Sample	ID:	890)-93	88-	16
				_	_	

Matrix: Solid

Dil Fac

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/21 13:09	07/15/21 06:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/21 13:09	07/15/21 06:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/21 13:09	07/15/21 06:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/14/21 13:09	07/15/21 06:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/21 13:09	07/15/21 06:47	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/14/21 13:09	07/15/21 06:47	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/14/21 13:09	07/15/21 06:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			07/14/21 13:09	07/15/21 06:47	1
1,4-Difluorobenzene (Surr)	103		70 - 130			07/14/21 13:09	07/15/21 06:47	1
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang		RO) (GC)	70 - 130			07/14/21 13:09	07/15/21 06:47	1
	ge Organics (D	RO) (GC) Qualifier	70 ₋ 130 R L	Unit	D	07/14/21 13:09 Prepared	07/15/21 06:47 Analyzed	
Method: 8015B NM - Diesel Rang	ge Organics (D	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier U	RL		<u>D</u>	Prepared	Analyzed	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	Prepared 07/15/21 08:43	Analyzed 07/17/21 19:47	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	Qualifier U U	RL 50.0	mg/Kg	<u>D</u>	Prepared 07/15/21 08:43 07/15/21 08:43	Analyzed 07/17/21 19:47 07/17/21 19:47	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <50.0 <50.0 <50.0	Qualifier U U U U	RL 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	Analyzed 07/17/21 19:47 07/17/21 19:47 07/17/21 19:47	Dil Fac 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	ge Organics (D) Result <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	RL 50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43 07/15/21 08:43	Analyzed 07/17/21 19:47 07/17/21 19:47 07/17/21 19:47 07/17/21 19:47	Dil Fac 1 1 1

5.00 **Client Sample ID: FS17** Lab Sample ID: 890-938-17

RL

Unit

mg/Kg

D

Prepared

Analyzed

07/17/21 16:00

Result Qualifier

350

Date Collected: 07/12/21 15:50 Date Received: 07/13/21 13:31

Sample Depth: - 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/14/21 13:09	07/15/21 07:08	
Toluene	<0.00201	U	0.00201	mg/Kg		07/14/21 13:09	07/15/21 07:08	•
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/14/21 13:09	07/15/21 07:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/14/21 13:09	07/15/21 07:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/14/21 13:09	07/15/21 07:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/14/21 13:09	07/15/21 07:08	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/14/21 13:09	07/15/21 07:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/14/21 13:09	07/15/21 07:08	1
1,4-Difluorobenzene (Surr)	100		70 - 130			07/14/21 13:09	07/15/21 07:08	1

Matrix: Solid

Lab Sample ID: 890-938-17

07/17/21 16:06

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Client Sample ID: FS17

Date Collected: 07/12/21 15:50 Date Received: 07/13/21 13:31

Sample Depth: - 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/15/21 15:36	07/19/21 03:26	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/15/21 15:36	07/19/21 03:26	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 15:36	07/19/21 03:26	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 15:36	07/19/21 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			07/15/21 15:36	07/19/21 03:26	1
o-Terphenyl	122		70 - 130			07/15/21 15:36	07/19/21 03:26	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.04

mg/Kg

507

Eurofins Xenco, Carlsbad

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-938-1	FS01	111	101	
890-938-2	FS02	114	101	
890-938-3	FS03	97	94	
890-938-4	FS04	94	96	
890-938-5	FS05	103	92	
890-938-6	FS06	98	88	
890-938-7	FS07	95	89	
890-938-8	FS08	112	105	
890-938-9	FS09	88	84	
890-938-10	FS10	108	102	
890-938-11	FS11	110	105	
890-938-12	FS12	98	96	
890-938-13	FS13	106	99	
890-938-13 MS	FS13	106	99	
890-938-13 MSD	FS13	104	100	
890-938-14	FS14	110	102	
890-938-15	FS15	108	102	
890-938-16	FS16	110	103	
890-938-17	FS17	113	100	
LCS 880-5145/1-A	Lab Control Sample	97	108	
LCS 880-5187/1-A	Lab Control Sample	105	99	
LCS 880-5188/1-A	Lab Control Sample	87	92	
LCSD 880-5145/2-A	Lab Control Sample Dup	93	103	
LCSD 880-5187/2-A	Lab Control Sample Dup	104	98	
LCSD 880-5188/2-A	Lab Control Sample Dup	77	115	
MB 880-5121/5-A	Method Blank	103	98	
MB 880-5145/5-A	Method Blank	64 S1-	87	
MB 880-5187/5-A	Method Blank	104	94	
MB 880-5188/5-A	Method Blank	66 S1-	85	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-938-1	FS01	97	106
890-938-2	FS02	93	102
890-938-3	FS03	94	102
890-938-4	FS04	90	98
890-938-5	FS05	111	119
890-938-6	FS06	95	100
890-938-7	FS07	110	119
890-938-8	FS08	93	100
890-938-9	FS09	109	118
890-938-10	FS10	107	115

Eurofins Xenco, Carlsbad

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recove
		1CO1	OTPH1	
Lab Sample ID C	Client Sample ID	(70-130)	(70-130)	
890-938-11 F	S11	108	114	
890-938-12 F	S12	119	130	
890-938-13 F	-S13	102	109	
890-938-14 F	-S14	97	101	
890-938-15 F	S15	108	113	
890-938-16 F	S16	92	95	
890-938-17 F	S17	109	122	
LCS 880-5207/2-A L	ab Control Sample	93	93	
LCS 880-5244/2-A L	ab Control Sample	102	98	
LCSD 880-5207/3-A L	ab Control Sample Dup	108	108	
LCSD 880-5244/3-A L	ab Control Sample Dup	104	97	
MB 880-5207/1-A	Method Blank	102	114	
MB 880-5244/1-A	Method Blank	106	122	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5121/5-A

Matrix: Solid

Analysis Batch: 5148

Client Sample ID: Method Blank

Prep Type:	Total/NA
Prep Bate	ch: 5121

MB	МВ						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		07/13/21 16:33	07/14/21 17:44	1
<0.00200	U	0.00200	mg/Kg		07/13/21 16:33	07/14/21 17:44	1
<0.00200	U	0.00200	mg/Kg		07/13/21 16:33	07/14/21 17:44	1
<0.00400	U	0.00400	mg/Kg		07/13/21 16:33	07/14/21 17:44	1
<0.00200	U	0.00200	mg/Kg		07/13/21 16:33	07/14/21 17:44	1
<0.00400	U	0.00400	mg/Kg		07/13/21 16:33	07/14/21 17:44	1
<0.00400	U	0.00400	mg/Kg		07/13/21 16:33	07/14/21 17:44	1
MB	MB						
	Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <0.00400	MB MB Result Qualifier	Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/13/21 16:33	07/14/21 17:44	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/13/21 16:33	07/14/21 17:44	1

Lab Sample ID: MB 880-5145/5-A

Matrix: Solid

Analysis Batch: 5206

Prep Type: Total/NA

Prep Batch: 5145

Client Sample ID: Method Blank

MB MB

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Toluene	<0.00200 L	J	0.00200	mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Ethylbenzene	<0.00200 L	IJ	0.00200	mg/Kg		07/14/21 09:47	07/15/21 11:42	1
m-Xylene & p-Xylene	<0.00400 L	J	0.00400	mg/Kg		07/14/21 09:47	07/15/21 11:42	1
o-Xylene	<0.00200 L	J	0.00200	mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Xylenes, Total	<0.00400 L	IJ	0.00400	mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Total BTEX	<0.00400 L	J	0.00400	mg/Kg		07/14/21 09:47	07/15/21 11:42	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	07/14/21 09:47	07/15/21 11:42	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/14/21 09:47	07/15/21 11:42	1

Lab Sample ID: LCS 880-5145/1-A

Matrix: Solid

Analysis Batch: 5206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5145

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09288		mg/Kg		93	70 - 130	
Toluene	0.100	0.08881		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.1760		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.09177		mg/Kg		92	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Client: WSP USA Inc. Project/Site: PLU North Frac Pond

Job ID: 890-938-1 SDG: 31403236.013.0129

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

Lab Sample ID: LCSD 880-5145/2-A

Analysis Batch: 5206

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 5145

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08785		mg/Kg		88	70 - 130	6	35
Toluene	0.100	0.09379		mg/Kg		94	70 - 130	5	35
Ethylbenzene	0.100	0.09612		mg/Kg		96	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1682		mg/Kg		84	70 - 130	5	35
o-Xylene	0.100	0.08780		mg/Kg		88	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1.4-Difluorobenzene (Surr)	103		70 ₋ 130

Lab Sample ID: MB 880-5187/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 5148

Prep Type: Total/NA

Prep Batch: 5187

MB MB

Analyte	Result Quali	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	0.00200	mg/Kg		07/14/21 13:09	07/15/21 05:17	1
Toluene	<0.00200 U	0.00200	mg/Kg		07/14/21 13:09	07/15/21 05:17	1
Ethylbenzene	<0.00200 U	0.00200	mg/Kg		07/14/21 13:09	07/15/21 05:17	1
m-Xylene & p-Xylene	<0.00400 U	0.00400	mg/Kg		07/14/21 13:09	07/15/21 05:17	1
o-Xylene	<0.00200 U	0.00200	mg/Kg		07/14/21 13:09	07/15/21 05:17	1
Xylenes, Total	<0.00400 U	0.00400	mg/Kg		07/14/21 13:09	07/15/21 05:17	1
Total BTEX	<0.00400 U	0.00400	mg/Kg		07/14/21 13:09	07/15/21 05:17	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/14/21 13:09	07/15/21 05:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/14/21 13:09	07/15/21 05:17	1

Lab Sample ID: LCS 880-5187/1-A

Matrix: Solid

Analysis Batch: 5148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5187

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07998		mg/Kg		80	70 - 130	
Toluene	0.100	0.07834		mg/Kg		78	70 - 130	
Ethylbenzene	0.100	0.08293		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1662		mg/Kg		83	70 - 130	
o-Xylene	0.100	0.08224		mg/Kg		82	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-5187/2-A

Matrix: Solid

Analysis Batch: 5148

Client Sample ID: Lab Control Sample Dup	Client	Sample	ID: Lab	Control	Sample	Dup
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Prep Type: Total/NA

Prep Batch: 5187

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08697		mg/Kg		87	70 - 130	8	35

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

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

Lab Sample ID: LCSD 880-5187/2-A

Matrix: Solid

Analysis Batch: 5148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5187

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08529		mg/Kg		85	70 - 130	8	35
Ethylbenzene	0.100	0.09055		mg/Kg		91	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1796		mg/Kg		90	70 - 130	8	35
o-Xylene	0.100	0.08746		mg/Kg		87	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-938-13 MS

Matrix: Solid

Analysis Batch: 5148

Client Sample ID: FS13
Prep Type: Total/NA

Prep Batch: 5187

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0996	0.06608	F1	mg/Kg		66	70 - 130	
Toluene	<0.00200	U F1	0.0996	0.06675	F1	mg/Kg		67	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.07122		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1434		mg/Kg		72	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.07055		mg/Kg		71	70 - 130	

Spike

Added

0.101

0.101

0.101

0.202

0.101

MSD MSD

0.07759

0.07762

0.08233

0.1649

0.07935

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-938-13 MSD

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 5148

Client Sample ID: FS13

Prep Type: Total/NA Prep Batch: 5187

14

12

35

35

%Rec. RPD %Rec Limits RPD Limit 77 70 - 130 16 35 77 70 - 130 15 35 82 70 - 130 14 35

70 - 130

70 - 130

82

MSD	MSD

Sample Sample

<0.00200 U F1

<0.00200 UF1

<0.00200 U

<0.00399 U

<0.00200 U

Result Qualifier

Surrogate	%Recovery (Qualifier	Limits		
4-Bromofluorobenzene (Surr)	104		70 - 130		
1,4-Difluorobenzene (Surr)	100		70 - 130		

Lab Sample ID: MB 880-5188/5-A

Matrix: Solid

Analysis Batch: 5206

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5188

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	07/14/21 13:15	07/16/21 00:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/21 13:15	07/16/21 00:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/21 13:15	07/16/21 00:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/21 13:15	07/16/21 00:52	1

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

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

Lab Sample ID: MB 880-5188/5-A

Lab Sample ID: LCS 880-5188/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 5206

Analysis Batch: 5206

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5188

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/21 13:15	07/16/21 00:52	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		07/14/21 13:15	07/16/21 00:52	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/14/21 13:15	07/16/21 00:52	1

MB MB

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	07/14/21 13:15	07/16/21 00:52	1
l	1,4-Difluorobenzene (Surr)	85		70 - 130	07/14/21 13:15	07/16/21 00:52	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5188

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit %Rec Limits 0.100 0.07647 Benzene mg/Kg 76 70 - 130 Toluene 0.100 0.08453 mg/Kg 85 70 - 130 Ethylbenzene 0.100 0.08718 mg/Kg 87 70 - 130 0.200 76 70 - 130 m-Xylene & p-Xylene 0.1529 mg/Kg 0.100 0.07942 79 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-5188/2-A

Matrix: Solid

Analysis Batch: 5206

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5188

Spike LCSD LCSD %Rec. RPD Limit Analyte Added Result Qualifier Limits **RPD** Unit D %Rec Benzene 0.100 0.07448 mg/Kg 74 70 - 130 3 35 Toluene 0.100 0.07893 mg/Kg 79 70 - 130 35 Ethylbenzene 0.100 0.09042 mg/Kg 90 70 - 130 4 35 m-Xylene & p-Xylene 0.200 0.1569 mg/Kg 78 70 - 130 35 0.100 0.08095 81 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	115	70 - 130

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

Lab Sample ID: MB 880-5207/1-A

Analysis Batch: 5321

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 5207

-	МВ	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 11:04	1

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7/20/2021

Client: WSP USA Inc. Project/Site: PLU North Frac Pond Job ID: 890-938-1

SDG: 31403236.013.0129

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

Lab Sample ID: MB 880-5207/1-A

Matrix: Solid

Analysis Batch: 5321

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 5207

	IVID	IAID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 11:04	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 08:43	07/17/21 11:04	1

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	07/15/21 08:43	07/17/21 11:04	1
o-Terphenyl	114		70 - 130	07/15/21 08:43	07/17/21 11:04	1

Lab Sample ID: LCS 880-5207/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 5321

Prep Type: Total/NA

Prep Batch: 5207

	Бріке	LUS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	767.7	-	mg/Kg		77	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	911.5		mg/Kg		91	70 - 130	
C10-C28)								

LCS LCS

ı	Surrogate	%Recovery	Qualifier	Limits
	1-Chlorooctane	93		70 - 130
	o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-5207/3-A

Matrix: Solid

Analysis Batch: 5321

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 5207

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	896.2		mg/Kg		90	70 - 130	15	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1041		mg/Kg		104	70 - 130	13	20
C10-C28)									
	Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	AnalyteAddedGasoline Range Organics1000(GRO)-C6-C10(GRO) Anage Organics (Over1000	Analyte Added Result Gasoline Range Organics 1000 896.2 (GRO)-C6-C10 1000 1041 Diesel Range Organics (Over 1000 1041	Analyte Added Result Qualifier Gasoline Range Organics 1000 896.2 (GRO)-C6-C10 1000 1041 Diesel Range Organics (Over 1000 1041	Analyte Added Result Qualifier Unit Gasoline Range Organics 1000 896.2 mg/Kg (GRO)-C6-C10 1000 1041 mg/Kg Diesel Range Organics (Over 1000 1041 mg/Kg	Analyte Added Gasoline Range Organics Analyte LCSD LCSD Unit D Gasoline Range Organics (GRO)-C6-C10 1000 896.2 mg/Kg Diesel Range Organics (Over 1000 1041 mg/Kg	Analyte Added Result Qualifier Unit D %Rec Gasoline Range Organics 1000 896.2 mg/Kg 90 (GRO)-C6-C10 000 1001 mg/Kg 1004 Diesel Range Organics (Over 1000 1041 mg/Kg 104	Analyte Added Gasoline Range Organics Analyte LCSD LCSD Unit D %Rec. Limits Gasoline Range Organics (GRO)-C6-C10 1000 896.2 mg/Kg 90 70 - 130 Diesel Range Organics (Over 1000 1041 mg/Kg 104 70 - 130	Analyte Added Gasoline Range Organics Result (GRO)-C6-C10 Unit (GRO)-C6-C10 Unit (GRO)-C6-C10 May (May (May (May (May (May (May (May (

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	108		70 - 130		
o-Terphenyl	108		70 - 130		

Lab Sample ID: MB 880-5244/1-A

Matrix: Solid

Analysis Batch: 5327

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 5244

M	В	MB
Resu	ılt	Qua

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/15/21 15:36	07/18/21 21:34	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/15/21 15:36	07/18/21 21:34	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/15/21 15:36	07/18/21 21:34	1
Total TPH	<50.0	U	50.0	mg/Kg		07/15/21 15:36	07/18/21 21:34	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	07/15/21 15:36	07/18/21 21:34	1

QC Sample Results

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

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

Lab Sample ID: MB 880-5244/1-A

Matrix: Solid

Analysis Batch: 5327

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5244

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 122 70 - 130 07/15/21 15:36 07/18/21 21:34

Lab Sample ID: LCS 880-5244/2-A

Matrix: Solid

Analysis Batch: 5327

Diesel Range Organics (Over

Client Sample ID: Lab Control Sample Prep Type: Total/NA

70 - 130

Prep Batch: 5244

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 907.6 mg/Kg 91 70 - 130 (GRO)-C6-C10

938.5

mg/Kg

1000

C10-C28)

LCS LCS

Qualifier Limits %Recovery Surrogate 70 - 130 1-Chlorooctane 102 70 - 130 o-Terphenyl 98

Client Sample ID: Lab Control Sample Dup

94

Lab Sample ID: LCSD 880-5244/3-A **Matrix: Solid**

Analysis Batch: 5327

Prep Type: Total/NA

Prep Batch: 5244

RPD

Spike LCSD LCSD %Rec. Added Result Qualifier RPD Analyte Unit %Rec Limits Limit Gasoline Range Organics 1000 901.9 90 70 - 130 20 mg/Kg (GRO)-C6-C10 1000 939.4 Diesel Range Organics (Over mg/Kg 70 - 130 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	104	70 - 130
o-Terphenyl	97	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5281/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 5330

Client Sample ID: Method Blank

Prep Type: Soluble

мв мв

Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 07/17/21 13:49

Lab Sample ID: LCS 880-5281/2-A

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analysis Batch: 5330

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit %Rec Chloride 250 99 90 - 110 246.5 mg/Kg

Client: WSP USA Inc.

Job ID: 890-938-1 Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-5281/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Soluble
Analysis Batch: 5330	

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	246.1		mg/Kg	_	98	90 - 110	0	20	

Lab Sample ID: 890-938-3 MS Client Sample ID: FS03 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5330

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 530 F1 248 748.5 F1 mg/Kg 88 90 - 110

Lab Sample ID: 890-938-3 MSD **Client Sample ID: FS03 Matrix: Solid Prep Type: Soluble** Analysis Batch: 5330

MSD MSD %Rec. RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 530 F1 746.1 F1 248 mg/Kg 87 90 - 110

Lab Sample ID: 890-938-13 MS **Client Sample ID: FS13 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5330

MS MS Sample Sample Spike %Rec. Added %Rec Analyte Result Qualifier Result Qualifier Unit Limits Chloride 1530 1250 2831 104 90 - 110 mg/Kg

Lab Sample ID: 890-938-13 MSD Client Sample ID: FS13 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5330

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 1530 1250 2831 mg/Kg 104 90 - 110

Lab Sample ID: MB 880-5282/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 5390

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 5.00 mg/Kg 07/19/21 14:32

Lab Sample ID: LCS 880-5282/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5390

LCS LCS %Rec. Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 247.9 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-5282/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble Analysis Batch: 5390**

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 248.1 mg/Kg 99 90 - 110 20

Client: WSP USA Inc.

Job ID: 890-938-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

GC VOA

Prep Batch: 5121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5121/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-1	FS01	Total/NA	Solid	5035	
890-938-3	FS03	Total/NA	Solid	5035	
890-938-4	FS04	Total/NA	Solid	5035	
890-938-5	FS05	Total/NA	Solid	5035	
890-938-6	FS06	Total/NA	Solid	5035	
890-938-7	FS07	Total/NA	Solid	5035	
890-938-8	FS08	Total/NA	Solid	5035	
890-938-9	FS09	Total/NA	Solid	5035	
890-938-10	FS10	Total/NA	Solid	5035	
890-938-11	FS11	Total/NA	Solid	5035	
890-938-12	FS12	Total/NA	Solid	5035	
MB 880-5145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-13	FS13	Total/NA	Solid	8021B	5187
890-938-14	FS14	Total/NA	Solid	8021B	5187
890-938-15	FS15	Total/NA	Solid	8021B	5187
890-938-16	FS16	Total/NA	Solid	8021B	5187
890-938-17	FS17	Total/NA	Solid	8021B	5187
MB 880-5121/5-A	Method Blank	Total/NA	Solid	8021B	5121
MB 880-5187/5-A	Method Blank	Total/NA	Solid	8021B	5187
LCS 880-5187/1-A	Lab Control Sample	Total/NA	Solid	8021B	5187
LCSD 880-5187/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5187
890-938-13 MS	FS13	Total/NA	Solid	8021B	5187
890-938-13 MSD	FS13	Total/NA	Solid	8021B	5187

Prep Batch: 5187

_					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-938-13	FS13	Total/NA	Solid	5035	
890-938-14	FS14	Total/NA	Solid	5035	
890-938-15	FS15	Total/NA	Solid	5035	
890-938-16	FS16	Total/NA	Solid	5035	
890-938-17	FS17	Total/NA	Solid	5035	
MB 880-5187/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5187/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5187/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-938-13 MS	FS13	Total/NA	Solid	5035	
890-938-13 MSD	FS13	Total/NA	Solid	5035	

Prep Batch: 5188

Lab Sample ID 890-938-2	Client Sample ID FS02	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-5188/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5188/1-A	Lab Control Sample	Total/NA	Solid	5035	

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Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

GC VOA (Continued)

Prep Batch: 5188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-5188/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-1	FS01	Total/NA	Solid	8021B	5145
890-938-2	FS02	Total/NA	Solid	8021B	5188
890-938-3	FS03	Total/NA	Solid	8021B	5145
890-938-4	FS04	Total/NA	Solid	8021B	5145
890-938-5	FS05	Total/NA	Solid	8021B	5145
890-938-6	FS06	Total/NA	Solid	8021B	5145
890-938-7	FS07	Total/NA	Solid	8021B	5145
890-938-8	FS08	Total/NA	Solid	8021B	5145
890-938-9	FS09	Total/NA	Solid	8021B	5145
890-938-10	FS10	Total/NA	Solid	8021B	5145
890-938-11	FS11	Total/NA	Solid	8021B	5145
890-938-12	FS12	Total/NA	Solid	8021B	5145
MB 880-5145/5-A	Method Blank	Total/NA	Solid	8021B	5145
MB 880-5188/5-A	Method Blank	Total/NA	Solid	8021B	5188
LCS 880-5145/1-A	Lab Control Sample	Total/NA	Solid	8021B	5145
LCS 880-5188/1-A	Lab Control Sample	Total/NA	Solid	8021B	5188
LCSD 880-5145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5145
LCSD 880-5188/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5188

GC Semi VOA

Prep Batch: 5207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-1	FS01	Total/NA	Solid	8015NM Prep	
890-938-2	FS02	Total/NA	Solid	8015NM Prep	
890-938-3	FS03	Total/NA	Solid	8015NM Prep	
890-938-4	FS04	Total/NA	Solid	8015NM Prep	
890-938-5	FS05	Total/NA	Solid	8015NM Prep	
890-938-6	FS06	Total/NA	Solid	8015NM Prep	
890-938-7	FS07	Total/NA	Solid	8015NM Prep	
890-938-8	FS08	Total/NA	Solid	8015NM Prep	
890-938-9	FS09	Total/NA	Solid	8015NM Prep	
890-938-10	FS10	Total/NA	Solid	8015NM Prep	
890-938-11	FS11	Total/NA	Solid	8015NM Prep	
890-938-12	FS12	Total/NA	Solid	8015NM Prep	
890-938-13	FS13	Total/NA	Solid	8015NM Prep	
890-938-14	FS14	Total/NA	Solid	8015NM Prep	
890-938-15	FS15	Total/NA	Solid	8015NM Prep	
890-938-16	FS16	Total/NA	Solid	8015NM Prep	
MB 880-5207/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5207/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5207/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 5244

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-17	FS17	Total/NA	Solid	8015NM Prep	
MB 880-5244/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

GC Semi VOA (Continued)

Prep Batch: 5244 (Continued)

Lab Sample ID Client Sample ID Lab Control Sample		Prep Type	Matrix	Method	Prep Batch
LCS 880-5244/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-1	FS01	Total/NA	Solid	8015B NM	5207
890-938-2	FS02	Total/NA	Solid	8015B NM	5207
890-938-3	FS03	Total/NA	Solid	8015B NM	5207
890-938-4	FS04	Total/NA	Solid	8015B NM	5207
890-938-5	FS05	Total/NA	Solid	8015B NM	5207
890-938-6	FS06	Total/NA	Solid	8015B NM	5207
890-938-7	FS07	Total/NA	Solid	8015B NM	5207
890-938-8	FS08	Total/NA	Solid	8015B NM	5207
890-938-9	FS09	Total/NA	Solid	8015B NM	5207
890-938-10	FS10	Total/NA	Solid	8015B NM	5207
890-938-11	FS11	Total/NA	Solid	8015B NM	5207
890-938-12	FS12	Total/NA	Solid	8015B NM	5207
890-938-13	FS13	Total/NA	Solid	8015B NM	5207
890-938-14	FS14	Total/NA	Solid	8015B NM	5207
890-938-15	FS15	Total/NA	Solid	8015B NM	5207
890-938-16	FS16	Total/NA	Solid	8015B NM	5207
MB 880-5207/1-A	Method Blank	Total/NA	Solid	8015B NM	5207
LCS 880-5207/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5207
LCSD 880-5207/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5207

Analysis Batch: 5327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-17	FS17	Total/NA	Solid	8015B NM	5244
MB 880-5244/1-A	Method Blank	Total/NA	Solid	8015B NM	5244
LCS 880-5244/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5244
LCSD 880-5244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5244

HPLC/IC

Leach Batch: 5281

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-938-3	FS03	Soluble	Solid	DI Leach	_
890-938-4	FS04	Soluble	Solid	DI Leach	
890-938-5	FS05	Soluble	Solid	DI Leach	
890-938-6	FS06	Soluble	Solid	DI Leach	
890-938-7	FS07	Soluble	Solid	DI Leach	
890-938-8	FS08	Soluble	Solid	DI Leach	
890-938-9	FS09	Soluble	Solid	DI Leach	
890-938-10	FS10	Soluble	Solid	DI Leach	
890-938-11	FS11	Soluble	Solid	DI Leach	
890-938-12	FS12	Soluble	Solid	DI Leach	
890-938-13	FS13	Soluble	Solid	DI Leach	
890-938-14	FS14	Soluble	Solid	DI Leach	
890-938-15	FS15	Soluble	Solid	DI Leach	
890-938-16	FS16	Soluble	Solid	DI Leach	
890-938-17	FS17	Soluble	Solid	DI Leach	

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HPL

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

HPLC/IC (Continued)

Leach Batch: 5281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5281/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5281/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5281/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-938-3 MS	FS03	Soluble	Solid	DI Leach	
890-938-3 MSD	FS03	Soluble	Solid	DI Leach	
890-938-13 MS	FS13	Soluble	Solid	DI Leach	
890-938-13 MSD	FS13	Soluble	Solid	DI Leach	

Leach Batch: 5282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-1	FS01	Soluble	Solid	DI Leach	
890-938-2	FS02	Soluble	Solid	DI Leach	
MB 880-5282/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5282/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5282/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-3	FS03	Soluble	Solid	300.0	5281
890-938-4	FS04	Soluble	Solid	300.0	5281
890-938-5	FS05	Soluble	Solid	300.0	5281
890-938-6	FS06	Soluble	Solid	300.0	5281
890-938-7	FS07	Soluble	Solid	300.0	5281
890-938-8	FS08	Soluble	Solid	300.0	5281
890-938-9	FS09	Soluble	Solid	300.0	5281
890-938-10	FS10	Soluble	Solid	300.0	5281
890-938-11	FS11	Soluble	Solid	300.0	5281
890-938-12	FS12	Soluble	Solid	300.0	5281
890-938-13	FS13	Soluble	Solid	300.0	5281
890-938-14	FS14	Soluble	Solid	300.0	5281
890-938-15	FS15	Soluble	Solid	300.0	5281
890-938-16	FS16	Soluble	Solid	300.0	5281
890-938-17	FS17	Soluble	Solid	300.0	5281
MB 880-5281/1-A	Method Blank	Soluble	Solid	300.0	5281
LCS 880-5281/2-A	Lab Control Sample	Soluble	Solid	300.0	5281
LCSD 880-5281/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5281
890-938-3 MS	FS03	Soluble	Solid	300.0	5281
890-938-3 MSD	FS03	Soluble	Solid	300.0	5281
890-938-13 MS	FS13	Soluble	Solid	300.0	5281
890-938-13 MSD	FS13	Soluble	Solid	300.0	5281

Analysis Batch: 5390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-938-1	FS01	Soluble	Solid	300.0	5282
890-938-2	FS02	Soluble	Solid	300.0	5282
MB 880-5282/1-A	Method Blank	Soluble	Solid	300.0	5282
LCS 880-5282/2-A	Lab Control Sample	Soluble	Solid	300.0	5282
LCSD 880-5282/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5282

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-938-1 SDG: 31403236.013.0129

Client Sample ID: FS01

Date Collected: 07/12/21 12:27 Date Received: 07/13/21 13:31

Lab Sample ID: 890-938-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 15:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5282	07/16/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1	5390	07/19/21 17:10	CH	XEN MID

Lab Sample ID: 890-938-2

Matrix: Solid

Date Collected: 07/12/21 12:33 Date Received: 07/13/21 13:31

Client Sample ID: FS02

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5188	07/14/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5206	07/16/21 10:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			5282	07/16/21 12:09	CH	XEN MID
Soluble	Analysis	300.0		1	5390	07/19/21 17:16	CH	XEN MID

Client Sample ID: FS03 Lab Sample ID: 890-938-3

Date Collected: 07/12/21 12:36

Date Received: 07/13/21 13:31

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/16/21 01:45	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:07	CH	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 14:05	CH	XEN MID

Client Sample ID: FS04 Lab Sample ID: 890-938-4 Date Collected: 07/12/21 12:38

Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/16/21 02:11	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 15:15	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:07	СН	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 14:22	CH	XEN MID

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Matrix: Solid

Matrix: Solid

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Date Received: 07/13/21 13:31

Job ID: 890-938-1 SDG: 31403236.013.0129

Client Sample ID: FS05 Lab Sample ID: 890-938-5 Date Collected: 07/12/21 12:41

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 18:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 15:36	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 14:27	CH	XEN MID

Client Sample ID: FS06 Lab Sample ID: 890-938-6

Date Collected: 07/12/21 14:16 **Matrix: Solid**

Date Received: 07/13/21 13:31

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	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 18:52	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 15:57	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 14:33	CH	XEN MID

Client Sample ID: FS07 Lab Sample ID: 890-938-7

Date Collected: 07/12/21 14:19 **Matrix: Solid** Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 19:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	СН	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 14:38	CH	XEN MID

Lab Sample ID: 890-938-8 **Client Sample ID: FS08**

Date Collected: 07/12/21 14:22 **Matrix: Solid** Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 19:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 17:00	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 14:54	CH	XEN MID

Client: WSP USA Inc.

Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS09

Date Collected: 07/12/21 14:25 Date Received: 07/13/21 13:31

Lab Sample ID: 890-938-9

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 20:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 17:21	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		5	5330	07/18/21 20:34	CH	XEN MID

Client Sample ID: FS10 Lab Sample ID: 890-938-10 Date Collected: 07/12/21 14:38 **Matrix: Solid**

Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 20:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 17:41	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 15:05	CH	XEN MID

Lab Sample ID: 890-938-11 **Client Sample ID: FS11**

Date Collected: 07/12/21 14:31 **Matrix: Solid** Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 20:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	СН	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 15:11	CH	XEN MID

Lab Sample ID: 890-938-12 **Client Sample ID: FS12** Date Collected: 07/12/21 14:34 **Matrix: Solid**

Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5206	07/15/21 21:25	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 18:23	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 15:16	CH	XEN MID

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Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS13 Lab Sample ID: 890-938-13

Date Collected: 07/12/21 14:37 Matrix: Solid Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5187	07/14/21 13:09	MR	XEN MID
Total/NA	Analysis	8021B		1	5148	07/15/21 05:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 18:44	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		5	5330	07/18/21 20:40	CH	XEN MID

Client Sample ID: FS14 Lab Sample ID: 890-938-14

Date Collected: 07/12/21 14:40 Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5187	07/14/21 13:09	MR	XEN MID
Total/NA	Analysis	8021B		1	5148	07/15/21 06:06	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 19:05	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 15:38	CH	XEN MID

Client Sample ID: FS15 Lab Sample ID: 890-938-15

Date Collected: 07/12/21 14:43 **Matrix: Solid** Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5187	07/14/21 13:09	MR	XEN MID
Total/NA	Analysis	8021B		1	5148	07/15/21 06:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 19:26	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	СН	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 15:44	CH	XEN MID

Client Sample ID: FS16 Lab Sample ID: 890-938-16 Date Collected: 07/12/21 14:46

Date Received: 07/13/21 13:31

Released to Imaging: 11/22/2021 1:50:39 PM

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5187	07/14/21 13:09	MR	XEN MID
Total/NA	Analysis	8021B		1	5148	07/15/21 06:47	MR	XEN MID
Total/NA	Prep	8015NM Prep			5207	07/15/21 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5321	07/17/21 19:47	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	СН	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 16:00	CH	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Client Sample ID: FS17 Lab Sample ID: 890-938-17

Date Collected: 07/12/21 15:50 Matrix: Solid Date Received: 07/13/21 13:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5187	07/14/21 13:09	MR	XEN MID
Total/NA	Analysis	8021B		1	5148	07/15/21 07:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			5244	07/15/21 15:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5327	07/19/21 03:26	AJ	XEN MID
Soluble	Leach	DI Leach			5281	07/16/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		1	5330	07/17/21 16:06	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-938-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Laboratory: Eurofins Xenco, Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-20-21	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ad by the gayerning outbority. This list my	
the agency does not of	• •	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
0 ,	• •	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	,	, , ,	ay include analytes for

Released to Imaging: 11/22/2021 1:50:39 PM

Method Summary

Client: WSP USA Inc.

Method

8021B

Project/Site: PLU North Frac Pond

Method Description

Job ID: 890-938-1

SDG: 31403236.013.0129

Protocol	Laboratory
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

Volatile Organic Compounds (GC) 8015B NM Diesel Range Organics (DRO) (GC) 300.0 Anions, Ion Chromatography 5035 Closed System Purge and Trap 8015NM Prep Microextraction SW846 XEN MID XEN MID DI Leach Deionized Water Leaching Procedure ASTM

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:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-938-1

SDG: 31403236.013.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-938-1	FS01	Solid	07/12/21 12:27	07/13/21 13:31	- 1
890-938-2	FS02	Solid	07/12/21 12:33	07/13/21 13:31	- 1
890-938-3	FS03	Solid	07/12/21 12:36	07/13/21 13:31	- 1
90-938-4	FS04	Solid	07/12/21 12:38	07/13/21 13:31	- 1
0-938-5	FS05	Solid	07/12/21 12:41	07/13/21 13:31	- 1
)-938-6	FS06	Solid	07/12/21 14:16	07/13/21 13:31	- 1
-938-7	FS07	Solid	07/12/21 14:19	07/13/21 13:31	- 1
)-938-8	FS08	Solid	07/12/21 14:22	07/13/21 13:31	- 1
938-9	FS09	Solid	07/12/21 14:25	07/13/21 13:31	- 1
938-10	FS10	Solid	07/12/21 14:38	07/13/21 13:31	- 1
938-11	FS11	Solid	07/12/21 14:31	07/13/21 13:31	- 1
938-12	FS12	Solid	07/12/21 14:34	07/13/21 13:31	- 1
-938-13	FS13	Solid	07/12/21 14:37	07/13/21 13:31	- 1
938-14	FS14	Solid	07/12/21 14:40	07/13/21 13:31	- 1
-938-15	FS15	Solid	07/12/21 14:43	07/13/21 13:31	- 1
938-16	FS16	Solid	07/12/21 14:46	07/13/21 13:31	- 1
)-938-17	FS17	Solid	07/12/21 15:50	07/13/21 13:31	- 1

0	3	1 di 12/04 (Tel Ut) 7-13-71 1331 2	Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Receive	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.	Notice: Signature of this document and relianguishment of samples one statute as well perchase order from them company to xenco, its amiliates and succontractors in assigns entering and conductors 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 service.	ICEP/3PEP BOID: BECHA SD AS DA DE CU CI CO CU FD IN	BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	FS10 S 7/12/2021 1428 1' 1 X X X X	FS09 S 7/12/2021 1425 1' 1 X X X	FS08 S 7/12/2021 1422 1' 1 X X X	FS07 S 7/12/2021 1419 1' 1 X X X X	FS06 S 7/12/2021 1416 1' 1 X X X	FS05 S 7/12/2021 1241 1' 1 X X X X	S	FS03 S 7/12/2021 1236 1' 1 X X X	FS02 S 7/12/2021 1233 1' 1 X X X	FS01 S 7/12/2021 1227 1' 1 X X X	Sample Identification Matrix Date Time Depth D	Yes N/A Total Containers: of PA 80	015) 0=8	D M S J	9000000	SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No	Sampler's Name: Luis Del Val Due Date:	P.O. Number: CC: 2094031001 Rush:	Project Number: 31403236.013.0129 Routine	Project Name: PLU North Frac Pond Turn Around ANALYSIS REQUEST	Phone: 432.236.3849 Email: <u>luis.delval@wsp.com; kalei.jennings@wsp.com</u> Deliverables: EDD	City, State ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM 88220 Reporting: Level II	3300 North A Street Address: 3104 E Green Street	Company Name: WSP USA Inc. Company Name: XTO Energy Program: UST/PST	Project Manager: Kalei Jennings Bill to: (if different) Kyle Littrell	13-620-2000)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 LABCRATORIES Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Cildill Of Custody
			Relinquished by: (Signature) Received by: (Signature)	hese terms will be enforced unless previously negotiated.	and subcontractors. It assigns standard terms and conditions lient if such losses are due to iccumstances beyond to control	III WO NI SE AS II O	i K Se Ag SiO2													TA:					-				Reporting:Level II Level III ST/UST		Program: UST/PST PRP srownfields	Work Order Comments	www.xenco.com	Antonio,TX (210) 509-3334 ubbock,TX (806)794-1296	work order No.
Day 054449 Day 2018 4			Date/Time			43.17.47.07.77.1.19	Na Sr TI Sn U V Zn											Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the					API: 30-015-31687	IN: NAPP2116030736	Work Order Notes	Other:	LIPP LIVE IV		☐RC ☐uperfund ☐	nents	Page of A	9	

)							9	Chain of Custody	log						%	rk Or	Work Order No:	<u></u>				
X			Houston, T	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	0 Dalle	s,TX (2	14) 902	-0300 Sai	n Antonio	TX (210) 509-33	34										
LABO	RATORIES	Hobbs	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock.TX (806)794-1296 75-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (8	\$0) EL Z (480-	Paso,T) 355-090	((915)5 (0) Atla	85-3443 nta,GA (77	_ubbock, ⁻ 70-449-88	ГХ (806) 100) Тап	794-129 npa,FL (-1296 ,FL (813-620-2000)	-2000)		ww	w.xen	www.xenco.com		Page _	9>	으 	عر
Project Manager: K	Kalei Jennings			Bill to: (if different)	٥	Kyle Littrell	trell									Work (Work Order Comments	Comm	ents			
	WSP USA Inc.			Company Name:		XTO Energy	nergy					77	Program: UST/PST ☐PRP ☐Brownfields	: UST/I	PST [] वस्त्	Jarown	fields	<u>გ</u>		□uperfund	
	3300 North A Street			Address:	()	3104 E Green Street	Green	Street				L	State	State of Project:	ect:]
le ZIP:	Midland, TX 79705			City, State ZIP:		Carlsbad, NM 88220	ă, NM	88220				<u> </u>	Reporting:Level II	g:Level	= 	el III	∏ST/UST	TSU	HP		vel IV	
	432.236.3849		Email:	Email: uis.delval@wsp.com; kalei.jennings@wsp.com	vsp.co	m; kal	ei.jenr	ings@w	sp.com				Deliverables: EDD	les: El			ADaPT 🗆		∥ g	Other:		
Project Name:	PLU North Frac Pond	Frac Pond	Tur	Turn Around					Α	ANALYSIS REQUEST	SIS RE	QUES	1						Work	Orde	Work Order Notes	Ś
Project Number:	31403236.013.0129	.013.0129	Routine															_	N: NA	PP211	IN: NAPP2116030736	36
P.O. Number:	CC: 2094031001	1031001	Rush:									<u></u>							API: 3	30-015	API: 30-015-31687	7
Sampler's Name: Lu	Luis Del Val		Due Date:	ate:						-				_								
SAMPLE RECEIPT	Temp Blank:	k: Yes No	Wet ice:	Yes No	3																	
Temperature (°C):		-	bermameter ID		ners)					_									
Received Intact:	es N		70		ontai	5)	8021)	300.0	t													
Sample Custody Seals:	Yes No N/A		Total Containers:		r of C	A 801	PA 0:	(EPA					-			+-		2	lab, if re	ceived	lab, if received by 4:30pm	M
Sample Identification	ication Matrix	Date X Sampled	Time Sampled	Depth	Numbe	TPH (EI	BTEX (Chlorid											Samp	le Co	Sample Comments	ŝ
FS11	S	7/12/2021	1431	<u>-</u>	-	×	×	×				L	-	\vdash	-	\vdash						
FS12	S	7/12/2021	1434	<u></u>	_	×	×	×					-	┝	-	-	-					
FS13	S	7/12/2021	1437	<u></u>	_	×	×	×	-	-			-	\vdash	\vdash		-	-				
FS14	S	7/12/2021	1440	<u>-</u>	_	×	×	×	_				-	-	\vdash	+	╁	\dagger				
FS15	s	7/12/2021	1443		_	×	×	×	\vdash			_	-	-	\vdash	-	+	-				
FS16	s	7/12/2021	1446	<u>-</u>	_	×	×	×				L	-	\vdash	-	+	+	╁				
FS17	S	7/12/2021	1550			×	×	×				\perp	+	+			-	_				
																	-	-				
									-			_	_	-	-	-	-					
Total 200.7 / 6010 Circle Method(s)	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		8RCAA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA	M Texas 11 P 6010: 8RC		Sb As Sb As	Ba E	Ba Be B Cd Ba Be Cd Cl	င္လ	Cr Co Cu Cu Pb M	Cu Fe Mn M	AO N.	Pb Mg Mn Mo Ni K o Ni Se Ag TI U	Mo N	K Se	Ąg	SiO2 N	Na Sr Tl Sn ∪ V 1631 / 245.1 / 7470	TI Sr 45.1/	1 ∪ V 7470	Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	: Hg
Notice: Signature of this doc	Signature of this document and reinquisiment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors.	or samples constitu	utes a valid purch	ase order from c	lient co	npany to	Xenco,	its affiliate	s and sub	contracto	ors. It as	signs sta	It assigns standard terms and conditions	ms and c	condition	ō 5						
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.	e of \$75.00 will be applied	to each project and	a charge of \$5 for	reach sample su	bmitted	to Xenc	o, but no	t analyzed.	These ter	ms will b	e enforc	ed unless	previous	ly negoti	ated.				╢			
Relinquished by: (Signature)	Signature)	Received by:	by: (Signature)	э)		Date/Time	ime		Relinquished by:	iished l		(Signature)		J.	eceive	d by: (Received by: (Signature)	ure)	\vdash	D	Date/Time	ĕ
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-938-1

SDG Number: 31403236.013.0129

List Source: Eurofins Xenco, Carlsbad

Login Number: 938 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	

Released to Imaging: 11/22/2021 1:50:39 PM

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-938-1

SDG Number: 31403236.013.0129

List Source: Eurofins Xenco, Midland

List Creation: 07/14/21 11:19 AM

Creator: Copeland, Tatiana

Login Number: 938

List Number: 2

<6mm (1/4").

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.	False	
COC is filled out in ink and legible.	False	
COC is filled out with all pertinent information.	False	
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	



ANALYTICAL REPORT

Job Number: 890-949-1

SDG Number: 31403236.013.0129

Job Description: PLU North Frac Pond

For: WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, TX 75207

Attention: Kalei Jennings

Approved for releas Jessica Kramer Project Manager 7/21/2021 4:08 PM

Jessica Kramer, Project Manager 1211 W. Florida Ave, Midland, TX, 79701 jessica.kramer@eurofinset.com 07/21/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

ELT ACCREONED
TNI
HABORATORY

Client: WSP USA Inc.

Job ID: 890-949-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID: 890-949-1 890-949-2 890-949-3 890-949-4 890-949-5 PH08B PH09 PH09A Client Sample ID: PH08 PH08A Depth: 0.5 0.5 Matrix: Solid Solid Solid Solid Solid

Date Collected: 07/14/2021 10:33 07/14/2021 10:38 07/14/2021 10:41 07/14/2021 11:03 07/14/2021 11:05

Method: 8021B - Volatile Organic Compounds (GC)

				07/18/2021 1:		07/18/2021 1		07/18/2021 1		07/19/2021 0	
	Analyzed:	07/19/2021 1	0:20	07/19/2021 1	0:41	07/19/2021 1	1:01	07/19/2021 1	1:22	07/20/2021 1	0:08
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00201 U	0.00201	<0.00199 U	0.00199	0.00753	0.00200	<0.00200 U	0.00200	<0.00201 U	0.00201
Toluene		<0.00201 U	0.00201	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00201 U	0.00201
Ethylbenzene		<0.00201 U	0.00201	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00201 U	0.00201
m-Xylene & p-Xylene		<0.00402 U	0.00402	<0.00398 U	0.00398	<0.00401 U	0.00401	<0.00401 U	0.00401	<0.00402 U	0.00402
o-Xylene		<0.00201 U	0.00201	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00201 U	0.00201
Xylenes, Total		<0.00402 U	0.00402	<0.00398 U	0.00398	<0.00401 U	0.00401	<0.00401 U	0.00401	<0.00402 U	0.00402
Total BTEX		<0.00402 U	0.00402	<0.00398 U	0.00398	0.00753	0.00401	<0.00401 U	0.00401	<0.00402 U	0.00402

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

Prepared:	07/16/2021 11	:53	07/16/2021 11	:53	07/16/2021 11	:53	07/16/2021 11	:53	07/16/2021 11:	:53
Analyzed:	07/19/2021 16	:19	07/19/2021 16	:40	07/19/2021 17	:00	07/19/2021 17	:21	07/19/2021 18:	:03
Analyte Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics	<49.9 U *-	49.9	<50.0 U *-	50.0	<50.0 U *-	50.0	<49.9 U *-	49.9	<50.0 U *-	50.0
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<50.0 U	50.0
C10-C28)										
Oll Range Organics (Over	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<50.0 U	50.0
C28-C36)										
Total TPH	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<50.0 U	50.0

Prepared:

	Analyzed:	07/19/2021 1	8:27	07/20/2021 17	7:57	07/20/2021 18	3:13	07/20/2021 18	3:19	07/20/2021 18	3:24
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		1860	25.0	476	5.04	67.2	4.99	994	4.96	157	4.96

Client: WSP USA Inc.

Job ID: 890-949-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID: 890-949-6 890-949-7 890-949-8 890-949-9 890-949-10 PH10 PH10A PH10B PH11 Client Sample ID: PH09B 0.5 Depth: 2 Matrix: Solid Solid Solid Solid Solid Date Collected: 07/14/2021 11:07 07/14/2021 12:10 07/14/2021 12:13 07/14/2021 12:16 07/14/2021 12:45

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/19/2021 0	9:25	07/19/2021 0	9:25	07/19/2021 0	9:25	07/19/2021 0	9:25	07/19/2021 0	9:31
	Analyzed:	07/20/2021 1	0:29	07/20/2021 1	0:50	07/20/2021 1	1:10	07/20/2021 1	1:31	07/19/2021 1	6:15
Analyte	Unit/RL:	mg/Kg	RL								
Benzene		<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00202 U	0.00202	<0.00198 U	0.00198	<0.00198 U	0.00198
										F1 F2	
Toluene		<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00202 U	0.00202	<0.00198 U	0.00198	<0.00198 U	0.00198
Ethylbenzene		<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00202 U	0.00202	<0.00198 U	0.00198	<0.00198 U	0.00198
m-Xylene & p-Xylene		<0.00401 U	0.00401	<0.00403 U	0.00403	<0.00404 U	0.00404	<0.00397 U	0.00397	<0.00396 U	0.00396
o-Xylene		<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00202 U	0.00202	<0.00198 U	0.00198	<0.00198 U	0.00198
Xylenes, Total		<0.00401 U	0.00401	<0.00403 U	0.00403	<0.00404 U	0.00404	<0.00397 U	0.00397	<0.00396 U	0.00396
Total BTEX		<0.00401 U	0.00401	<0.00403 U	0.00403	<0.00404 U	0.00404	<0.00397 U	0.00397	<0.00396 U	0.00396

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

Prepared:	07/16/2021 1	1:53	07/16/2021 11	1:53	07/16/2021 11	:53	07/16/2021 11	:53	07/16/2021 11	:53
Analyzed:	07/19/2021 1	8:23	07/19/2021 18	3:44	07/19/2021 19	9:05	07/19/2021 19	9:26	07/19/2021 19):47
Analyte Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics	<50.0 U *-	50.0	<49.9 U *-	49.9	<49.9 U *-	49.9	<49.9 U *-	49.9	<50.0 U *-	50.0
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0
C10-C28)										
Oll Range Organics (Over	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0
C28-C36)										
Total TPH	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0

Dra	nared:
LIE	pareu.

	Analyzed:	07/20/2021 18	3:29	07/20/2021 18	:46	07/20/2021 18	3:51	07/20/2021 18	:57	07/20/2021 19	:02
Analyte	Unit/RL:	mg/Kg	RL								
Chloride		55.6	4.99	235	5.05	84.1	5.03	60.3	5.02	2120	25.0

Project/Site: PLU North Frac Pond

Job ID: 890-949-1

SDG: 31403236.013.0129

Client Sample Result Summary

Client: WSP USA Inc.

Solid

 Lab Sample ID:
 890-949-11
 890-949-12

 Client Sample ID:
 PH11A
 PH11B

 Depth:
 1
 2

Date Collected: 07/14/2021 12:48 07/14/2021 12:51

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

	Prepared:	07/19/2021 09	:31	07/19/2021 09	:31
	Analyzed:	07/19/2021 16	:35	07/19/2021 16	:56
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00200 U	0.00200	<0.00200 U	0.00200
Toluene		<0.00200 U	0.00200	<0.00200 U	0.00200
Ethylbenzene		<0.00200 U	0.00200	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00399 U	0.00399	<0.00399 U	0.00399
o-Xylene		<0.00200 U	0.00200	<0.00200 U	0.00200
Xylenes, Total		<0.00399 U	0.00399	<0.00399 U	0.00399
Total BTEX		<0.00399 U	0.00399	<0.00399 U	0.00399

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

	Prepared:	07/16/2021 11	:53	07/16/2021 11	:53
	Analyzed:	07/19/2021 20	0:07	07/19/2021 20	:28
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Org	ganics	<50.0 U *-	50.0	<49.9 U *-	49.9
(GRO)-C6-C10					
Diesel Range Organ	nics (Over	<50.0 U	50.0	<49.9 U	49.9
C10-C28)					
Oll Range Organics	(Over	<50.0 U	50.0	<49.9 U	49.9
C28-C36)					
Total TPH		<50.0 U	50.0	<49.9 U	49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:

	Analyzed:	07/20/202	1 19:08	07/20/2021	19:13
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		79.4	4 98	164	4 95



ANALYTICAL REPORT

Job Number: 890-959-1

SDG Number: 31403236.013.0129

Job Description: PLU North Frac Pond

For: WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, TX 75207

Attention: Dan Moir

Approved for release Jessica Kramer Project Manager 7/26/2021 10:55 AM

Jessica Kramer, Project Manager 1211 W. Florida Ave, Midland, TX, 79701 jessica.kramer@eurofinset.com 07/26/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

ELLY ACCREONED
TNI
HABORATORY

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID:	890-959-1	890-959-2	890-959-3	890-959-4	890-959-5
Client Sample ID:	FS18	FS19	FS20	FS21	FS22
Depth:	1	1	1	1	1
Matrix:	Solid	Solid	Solid	Solid	Solid

Date Collected: 07/15/2021 10:44 07/15/2021 10:47 07/15/2021 10:50 07/15/2021 10:53 07/15/2021 10:56

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/19/2021 11	:30	07/19/2021 11	:30	07/19/2021 11	1:30	07/19/2021 11	:30	07/19/2021 11	:30
	Analyzed:	07/20/2021 04	1:53	07/20/2021 05	5:14	07/20/2021 05	5:34	07/20/2021 05	5:54	07/20/2021 06	:15
Analyte	Unit/RL:	mg/Kg	RL								
Benzene		<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00202 U	0.00202	<0.00200 U	0.00200
Toluene		<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00202 U	0.00202	<0.00200 U	0.00200
Ethylbenzene		<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00202 U	0.00202	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00403 U	0.00403	<0.00401 U	0.00401
o-Xylene		<0.00200 U	0.00200	<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00202 U	0.00202	<0.00200 U	0.00200
Xylenes, Total		<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00403 U	0.00403	<0.00401 U	0.00401
Total BTEX		<0.00401 U	0.00401	<0.00399 U	0.00399	<0.00398 U	0.00398	<0.00403 U	0.00403	<0.00401 U	0.00401

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

Prepared:	07/19/2021 1	5:44	07/19/2021 15	5:44	07/19/2021 15	5:44	07/19/2021 15	5:44	07/19/2021 15	5:44
Analyzed:	07/23/2021 1	4:19	07/23/2021 15	5:22	07/23/2021 15	5:43	07/23/2021 16	6:04	07/23/2021 16	3:25
Analyte Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics	<50.0 U *-	50.0	<49.8 U *-	49.8	<50.0 U *-	50.0	<50.0 U *-	50.0	<49.8 U *-	49.8
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
C10-C28)										
Oll Range Organics (Over	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
C28-C36)										
Total TPH	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8

Prepared:

	Analyzed:	07/21/202	1 18:12	07/21/2021	18:28	07/21/2021	I 18:34	07/21/202	l 18:39	07/21/2021	18:44
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		1150	4.99	513	5.02	1270	5.00	201	5.05	207	5.01

07/15/2021 11:31

Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-959-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID: 890-959-6 890-959-7 890-959-8 890-959-9 890-959-10 FS25 FS26 FS27 FS24 Client Sample ID: FS23 Depth: 1 Matrix: Solid Solid Solid Solid Solid

07/15/2021 11:28

Date Collected: 07/15/2021 10:59 07/15/2021 11:02 07/15/2021 11:25

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/19/2021 11	:30	07/19/2021 11	:30	07/19/2021 11	:30	07/19/2021 11	:30	07/19/2021 11	:30
	Analyzed:	07/20/2021 06	3:35	07/20/2021 06	:56	07/20/2021 07	' :16	07/20/2021 07	:37	07/20/2021 07	:57
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00202 U	0.00202	<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00200 U	0.00200
Toluene		<0.00202 U	0.00202	<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00200 U	0.00200
Ethylbenzene		<0.00202 U	0.00202	<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00404 U	0.00404	<0.00399 U	0.00399	<0.00397 U	0.00397	<0.00400 U	0.00400	<0.00400 U	0.00400
o-Xylene		<0.00202 U	0.00202	<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00200 U	0.00200	<0.00200 U	0.00200
Xylenes, Total		<0.00404 U	0.00404	<0.00399 U	0.00399	<0.00397 U	0.00397	<0.00400 U	0.00400	<0.00400 U	0.00400
Total BTFX		<0.00404 U	0.00404	<0.00399 U	0.00399	<0.00397 U	0.00397	<0.00400 U	0.00400	<0.00400 U	0.00400

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

Prepared:	07/19/2021 1	5:44	07/19/2021 15	5:44	07/19/2021 15	5:44	07/19/2021 15	5:44	07/19/2021 15	:44
Analyzed:	07/23/2021 16	6:46	07/23/2021 17	' :07	07/23/2021 17	' :28	07/23/2021 17	' :49	07/23/2021 18	:10
Analyte Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics	<49.7 U *-	49.7	<49.9 U *-	49.9	<50.0 U *-	50.0	<50.0 U *-	50.0	<49.9 U *-	49.9
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
C10-C28)										
Oll Range Organics (Over	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
C28-C36)										
Total TPH	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:

	Analyzed:	07/21/2021	18:50	07/21/2021	18:55	07/21/2021	19:01	07/21/2021	19:44	07/21/2021	20:00
Analyte	Unit/RL:	mg/Kg	RL								
Chloride		250	5.05	121	5.00	1430	4.98	942 F1	5.03	506	4.99

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID:	890-959-11	890-959-12	890-959-13	890-959-14	890-959-15
Client Sample ID:	FS28	FS29	FS30	FS31	FS32
Depth:	1	1	1	1	1
Matrix:	Solid	Solid	Solid	Solid	Solid

Date Collected: 07/15/2021 11:34 07/15/2021 11:37 07/15/2021 11:40 07/15/2021 11:43 07/15/2021 11:46

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/19/2021 11:30		07/19/2021 11:30		07/19/2021 11:30		07/19/2021 11:30		07/19/2021 11:30	
	Analyzed:	07/20/2021 09:46		07/20/2021 10:07		07/20/2021 10:27		07/20/2021 10:48		07/20/2021 11:08	
Analyte	Unit/RL:	mg/Kg	RL								
Benzene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00202 U	0.00202	<0.00201 U	0.00201	<0.00202 U	0.00202
Toluene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00202 U	0.00202	<0.00201 U	0.00201	<0.00202 U	0.00202
Ethylbenzene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00202 U	0.00202	<0.00201 U	0.00201	<0.00202 U	0.00202
m-Xylene & p-Xylene		<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00403 U	0.00403	<0.00402 U	0.00402	<0.00404 U	0.00404
o-Xylene		<0.00199 U	0.00199	<0.00198 U	0.00198	0.00243	0.00202	<0.00201 U	0.00201	<0.00202 U	0.00202
Xylenes, Total		<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00403 U	0.00403	<0.00402 U	0.00402	<0.00404 U	0.00404
Total BTEX		<0.00398 U	0.00398	<0.00396 U	0.00396	<0.00403 U	0.00403	<0.00402 U	0.00402	<0.00404 U	0.00404

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

Pr	epared:	07/19/2021 1	5:44	07/19/2021 15:44 07/23/2021 19:12		07/19/2021 15:44 07/23/2021 19:33		07/19/2021 15:44 07/23/2021 19:54		07/19/2021 15:44 07/23/2021 20:15	
Ar	nalyzed:	07/23/2021 18	8:51								
Analyte I	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics		<50.0 U *-	50.0	<50.0 U *-	50.0	<49.9 U *-	49.9	<49.9 U *-	49.9	<49.9 U *-	49.9
(GRO)-C6-C10											
Diesel Range Organics (Ove	er	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9
C10-C28)											
Oll Range Organics (Over		<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9
C28-C36)											
Total TPH		<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9

	Analyzed:	07/21/2021 20:05		07/21/2021	07/21/2021 20:11		07/21/2021 20:16		07/21/2021 20:32		07/21/2021 20:38	
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	
Chloride		134	4.96	298	5.00	90.6	4.98	129	5.04	340	5.03	

Client: WSP USA Inc.

Job ID: 890-959-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID: 890-959-16 890-959-17 890-959-18 890-959-19 890-959-20 FS34 FS35 FS36 FS37 Client Sample ID: FS33 Depth: 1 Matrix: Solid Solid Solid Solid Solid

Date Collected: 07/15/2021 11:49 07/15/2021 11:52 07/15/2021 11:55 07/15/2021 12:16 07/15/2021 12:18

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/19/2021 11:30		07/19/2021 11:30		07/19/2021 11:30		07/19/2021 11:30		07/19/2021 11:30	
	Analyzed:	07/20/2021 11:29		07/20/2021 11:49		07/20/2021 12:09		07/20/2021 12:30		07/20/2021 12:50	
Analyte	Unit/RL:	mg/Kg	RL								
Benzene		<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00201 U	0.00201
Toluene		<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00201 U	0.00201
Ethylbenzene		<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00201 U	0.00201
m-Xylene & p-Xylene		<0.00400 U	0.00400	<0.00396 U	0.00396	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00402 U	0.00402
o-Xylene		<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00201 U	0.00201
Xylenes, Total		<0.00400 U	0.00400	<0.00396 U	0.00396	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00402 U	0.00402
Total BTEX		<0.00400 U	0.00400	<0.00396 U	0.00396	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00402 U	0.00402

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

Pr	Prepared: 07/19/2021 15:44		07/19/2021 15:44		07/19/2021 15:44		07/19/2021 15:44		07/19/2021 15:44		
An	nalyzed:	07/23/2021 20	0:36	07/23/2021 20:57		07/23/2021 21:18		07/23/2021 21	:39	07/23/2021 22:00	
Analyte l	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics		<50.0 U *-	50.0	<50.0 U *-	50.0	<49.9 U *-	49.9	<49.9 U *-	49.9	<50.0 U *-	50.0
(GRO)-C6-C10											
Diesel Range Organics (Ove	er	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0
C10-C28)											
Oll Range Organics (Over		<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0
C28-C36)											
Total TPH		<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0

	Analyzed:	07/21/2021 20:43		07/21/2021	07/21/2021 20:48		07/21/2021 20:54		07/21/2021 20:59		07/21/2021 21:15	
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	
Chloride		223	4.99	539	5.04	352	4.98	358	4.98	146	5.00	

07/15/2021 13:26

Client Sample Result Summary

Client: WSP USA Inc. Job ID: 890-959-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Lab Sample ID: 890-959-21 890-959-22 890-959-23 890-959-24 890-959-25 FS42 FS39 FS40 FS41 Client Sample ID: FS38 Depth: 1 Matrix: Solid Solid Solid Solid Solid Date Collected: 07/15/2021 12:20

07/15/2021 13:20

07/15/2021 13:23

07/15/2021 13:17

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/19/2021 11:36		07/19/2021 1	07/19/2021 11:36		07/19/2021 11:36		07/19/2021 11:36		1:36
	Analyzed:	07/20/2021 0	07/20/2021 05:56		07/20/2021 06:22		07/20/2021 06:48		07/20/2021 07:14		7:40
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00198 U	0.00198	<0.00198 U	0.00198	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00200 U	0.00200
Toluene		<0.00198 U	0.00198	<0.00198 U	0.00198	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00200 U	0.00200
Ethylbenzene		<0.00198 U	0.00198	<0.00198 U	0.00198	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00397 U	0.00397	<0.00396 U	0.00396	<0.00396 U	0.00396	<0.00398 U	0.00398	<0.00401 U	0.00401
o-Xylene		<0.00198 U	0.00198	<0.00198 U	0.00198	<0.00198 U	0.00198	<0.00199 U	0.00199	<0.00200 U	0.00200
Xylenes, Total		<0.00397 U	0.00397	<0.00396 U	0.00396	<0.00396 U	0.00396	<0.00398 U	0.00398	<0.00401 U	0.00401
Total BTEX		<0.00397 U	0.00397	<0.00396 U	0.00396	<0.00396 U	0.00396	<0.00398 U	0.00398	<0.00401 U	0.00401

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

Prepared:	07/20/2021 0	9:22	07/20/2021 09	07/20/2021 09:22		07/20/2021 09:22		9:22	07/20/2021 09:22	
Analyzed:	07/24/2021 1	0:27	07/24/2021 11:30		07/24/2021 11:51		07/24/2021 12:12		07/24/2021 12:33	
Analyte Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
C10-C28)										
OII Range Organics (Over	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
C28-C36)										
Total TPH	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8

	Analyzed:	07/21/2021 21:21		07/21/2021 21:37		07/21/2021 21:42		07/21/2021 21:48		07/21/2021 21:53	
Analyte	Unit/RL:	mg/Kg	RL								
Chloride		133	5.02	91.9	4.98	17.5	5.03	15.0	4.99	25.5	5.03

07/15/2021 13:41

Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-959-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID: 890-959-26 890-959-27 890-959-28 890-959-29 890-959-30 FS47 Client Sample ID: FS43 FS44 FS45 FS46 Depth: 1 Matrix: Solid Solid Solid Solid Solid

07/15/2021 13:35

07/15/2021 13:38

07/15/2021 13:32

Method: 8021B - Volatile Organic Compounds (GC)

Date Collected: 07/15/2021 13:29

	Prepared:	07/19/2021 11:36		07/19/2021 11:36		07/19/2021 11:36		07/19/2021 11:36		07/19/2021 11:36	
	Analyzed:	07/20/2021 08	3:06	07/20/2021 08	07/20/2021 08:33		3:59	07/20/2021 09	9:25	07/20/2021 09	9:51
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200
Toluene		<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200
Ethylbenzene		<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00399 U	0.00399	<0.00403 U	0.00403	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00401 U	0.00401
o-Xylene		<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200
Xylenes, Total		<0.00399 U	0.00399	<0.00403 U	0.00403	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00401 U	0.00401
Total BTFX		<0.00399 U	0.00399	<0.00403 U	0.00403	<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00401 U	0.00401

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

Prepared:	07/20/2021 0	20/2021 09:22		07/20/2021 09:22		07/20/2021 09:22		07/20/2021 09:22		9:22
Analyzed:	07/24/2021 1	2:54	07/24/2021 13	3:15	07/24/2021 13	3:36	07/24/2021 13:57		07/24/2021 14:18	
Analyte Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
C10-C28)										
OII Range Organics (Over	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
C28-C36)										
Total TPH	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9

Prepared:

	Analyzed:	07/21/2021 21:58		07/21/2021 22:04		07/21/2021 22:09		07/21/2021 23:13		07/21/2021 23:30	
Analyte	Unit/RL:	mg/Kg	RL								
Chloride		74.8	5.04	102	5.02	111	4.98	237	4.98	168	5.02

07/15/2021 14:09

Client Sample Result Summary

Client: WSP USA Inc. Job ID: 890-959-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

Lab Sample ID: 890-959-31 890-959-32 890-959-33 890-959-34 890-959-35 FS50 FS51 FS52 Client Sample ID: FS48 FS49 Depth: 1 Matrix: Solid Solid Solid Solid Solid

07/15/2021 14:03

07/15/2021 14:06

07/15/2021 14:00

Date Collected: 07/15/2021 13:57

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

	Prepared:	07/19/2021 11:36		07/19/2021 11	07/19/2021 11:36		07/19/2021 11:36		:36	07/19/2021 11:36	
	Analyzed:	07/20/2021 11	:37	07/20/2021 12	2:03	07/20/2021 12	2:28	07/20/2021 12	2:53	07/20/2021 13	:18
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00201 U	0.00201
Toluene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00201 U	0.00201
Ethylbenzene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00201 U	0.00201
m-Xylene & p-Xylene		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00403 U	0.00403	<0.00398 U	0.00398	<0.00402 U	0.00402
o-Xylene		0.00222	0.00201	<0.00200 U	0.00200	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00201 U	0.00201
Xylenes, Total		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00403 U	0.00403	<0.00398 U	0.00398	<0.00402 U	0.00402
Total BTEX		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00403 U	0.00403	<0.00398 U	0.00398	<0.00402 U	0.00402

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

	Prepared: 07/20/2021 09:22		07/20/2021 09:22		07/20/2021 09:22		07/20/2021 09:22		07/20/2021 09:22		
	Analyzed:	07/24/2021 1	5:00	07/24/2021 15	:21	07/24/2021 15:42		07/24/2021 16:03		07/24/2021 16:24	
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics	3	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9
(GRO)-C6-C10											
Diesel Range Organics (C	Over	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9
C10-C28)											
Oll Range Organics (Ove	r	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9
C28-C36)											
Total TPH		<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9

Prepared:

	Analyzed:	07/21/2021 23:35		07/21/2021 23:40		07/21/2021 23:46		07/22/2021 00:02		07/22/2021 00:07	
Analyte	Unit/RL:	mg/Kg	RL								
Chloride		111	4.97	444	4.95	262	5.04	146	4.97	83.5	4.99

07/15/2021 14:35

Client Sample Result Summary

Client: WSP USA Inc. Job ID: 890-959-1 Project/Site: PLU North Frac Pond SDG: 31403236.013.0129

> **Lab Sample ID:** 890-959-36 890-959-37 890-959-38 890-959-39 890-959-40 FS57 FS54 FS55 FS56 Client Sample ID: FS53 Depth: 1 Matrix: Solid Solid Solid Solid Solid Date Collected: 07/15/2021 14:12

07/15/2021 14:28

07/15/2021 14:32

07/15/2021 14:21

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/19/2021 11:36 0		07/19/2021 11:36		07/19/2021 11:36		07/19/2021 11:36		07/19/2021 11:36	
	Analyzed:	07/20/2021 13	3:44	07/20/2021 14	07/20/2021 14:09		:34	07/20/2021 15:00		07/20/2021 15:25	
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00200 U	0.00200	<0.00201 U	0.00201	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00198 U	0.00198
Toluene		<0.00200 U	0.00200	<0.00201 U	0.00201	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00198 U	0.00198
Ethylbenzene		<0.00200 U	0.00200	<0.00201 U	0.00201	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00198 U	0.00198
m-Xylene & p-Xylene		<0.00399 U	0.00399	<0.00402 U	0.00402	<0.00404 U	0.00404	<0.00398 U	0.00398	<0.00396 U	0.00396
o-Xylene		<0.00200 U	0.00200	<0.00201 U	0.00201	<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00198 U	0.00198
Xylenes, Total		<0.00399 U	0.00399	<0.00402 U	0.00402	<0.00404 U	0.00404	<0.00398 U	0.00398	<0.00396 U	0.00396
Total RTEY		<0.00300 II	0.00300	<0.0040311	0.00403	<0.0040411	0.00404	<0.00308 II	0 00308	<0.0030611	0.00306

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

Pi	Prepared: 07/20/2021 09:22		07/20/2021 09:22		07/20/2021 09:22		07/20/2021 09:22		07/20/2021 09:22		
Aı	nalyzed:	07/24/2021 1	6:45	07/24/2021 17	':06	07/24/2021 17	7:27	07/24/2021 17	':48	07/24/2021 18:09	
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics		<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0
(GRO)-C6-C10											
Diesel Range Organics (Ov	er	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0
C10-C28)											
Oll Range Organics (Over		<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0
C28-C36)											
Total TPH		<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:

	Analyzed:	07/22/2021 00:13		07/22/2021 00:18		07/22/2021 00:23		07/22/2021 00:29		07/22/2021 00:45	
Analyte	Unit/RL:	mg/Kg	RL								
Chloride		347	5.04	1140	5.02	881	4.96	936 F1	5.00	97.2	4.95

Client: WSP USA Inc.

Job ID: 890-959-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID: 890-959-41 890-959-42 890-959-43 890-959-44 890-959-45 FS59 FS60 FS61 FS62 Client Sample ID: FS58 Depth: 1 Matrix: Solid Solid Solid Solid Solid

Date Collected: 07/15/2021 14:38 07/15/2021 14:41 07/15/2021 14:42 07/15/2021 14:44 07/15/2021 14:46

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/19/2021 1	1:38	07/19/2021 11	1:38	07/19/2021 1	1:38	07/19/2021 1	1:38	07/19/2021 11	:38
	Analyzed:	07/20/2021 14	4:59	07/20/2021 15	5:19	07/20/2021 1	5:40	07/20/2021 1	6:00	07/20/2021 16	3:20
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00199 U	0.00199
Toluene		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00199 U	0.00199
Ethylbenzene		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00199 U	0.00199
m-Xylene & p-Xylene		<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00400 U	0.00400	<0.00396 U	0.00396	<0.00398 U	0.00398
o-Xylene		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00198 U	0.00198	<0.00199 U	0.00199
Xylenes, Total		<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00400 U	0.00400	<0.00396 U	0.00396	<0.00398 U	0.00398
Total BTEX		<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00400 U	0.00400	<0.00396 U	0.00396	<0.00398 U	0.00398

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

Prepared:	07/20/2021 0	9:45	07/20/2021 09	9:45	07/20/2021 09	9:45	07/20/2021 09	9:45	07/20/2021 09	:45
Analyzed:	07/25/2021 1	2:29	07/25/2021 13	3:34	07/25/2021 13	3:55	07/25/2021 14	:16	07/25/2021 14	:37
Analyte Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
C10-C28)										
Oll Range Organics (Over	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8
C28-C36)										
Total TPH	<50.0 U	50.0	<49.8 U	49.8	<50.0 U	50.0	<50.0 U	50.0	<49.8 U	49.8

	Analyzed:	07/22/202	1 00:50	07/22/2021	01:07	07/22/2021	1 01:12	07/22/202	I 01:17	07/22/202	1 01:23
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		481	4.96	300	4.97	83.2	5.00	347	4.95	901	4.98

07/15/2021 15:05

Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-959-1

Project/Site: PLU North Frac Pond

SDG: 31403236.013.0129

Lab Sample ID: 890-959-46 890-959-47 890-959-48 890-959-49 890-959-50 FS64 FS65 FS66 FS67 Client Sample ID: FS63 Depth: 1 Matrix: Solid Solid Solid Solid Solid

07/15/2021 14:52

07/15/2021 15:02

07/15/2021 14:51

Method: 8021B - Volatile Organic Compounds (GC)

Date Collected: 07/15/2021 14:49

	Prepared:	07/19/2021 11	:38	07/19/2021 11	:38	07/19/2021 11	:38	07/19/2021 11	:38	07/19/2021 11	:38
	Analyzed:	07/20/2021 16	6:41	07/20/2021 17	':01	07/20/2021 17	7:22	07/20/2021 17	7:42	07/20/2021 18	3:02
Analyte	Unit/RL:	mg/Kg	RL								
Benzene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00201 U	0.00201	<0.00198 U	0.00198	<0.00199 U	0.00199
Toluene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00201 U	0.00201	<0.00198 U	0.00198	<0.00199 U	0.00199
Ethylbenzene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00201 U	0.00201	<0.00198 U	0.00198	<0.00199 U	0.00199
m-Xylene & p-Xylene		<0.00398 U	0.00398	<0.00397 U	0.00397	<0.00402 U	0.00402	<0.00397 U	0.00397	<0.00398 U	0.00398
o-Xylene		<0.00199 U	0.00199	<0.00198 U	0.00198	<0.00201 U	0.00201	<0.00198 U	0.00198	<0.00199 U	0.00199
Xylenes, Total		<0.00398 U	0.00398	<0.00397 U	0.00397	<0.00402 U	0.00402	<0.00397 U	0.00397	<0.00398 U	0.00398
Total BTFX		<0.00398 U	0.00398	<0.00397 U	0.00397	<0.00402 U	0.00402	<0.00397 U	0.00397	<0.00398 U	0.00398

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

	Prepared:	07/20/2021 0	9:45	07/20/2021 09	9:45	07/20/2021 09	9:45	07/20/2021 09	9:45	07/20/2021 09	9:45
	Analyzed:	07/25/2021 1	4:58	07/25/2021 15	5:19	07/25/2021 15	5:40	07/25/2021 16	3:01	07/25/2021 16	3:22
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics		<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
(GRO)-C6-C10											
Diesel Range Organics (C	ver	<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
C10-C28)											
Oll Range Organics (Over		<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9
C28-C36)											
Total TPH		<49.7 U	49.7	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0	<49.9 U	49.9

	Analyzed:	07/22/2021 01	1:28	07/22/2021 01	:33	07/22/2021 01	:39	07/22/2021 07	:24	07/22/2021 07	:29
Analyte	Unit/RL:	mg/Kg	RL								
Chloride		729	5.02	265	5.02	140	5.02	10.4	5.04	234	5.02

Client: WSP USA Inc.

Project/Site: PLU North Frac Pond

Job ID: 890-959-1 SDG: 31403236.013.0129

 Lab Sample ID:
 890-959-51

 Client Sample ID:
 FS68

 Depth:
 1

 Matrix:
 Solid

Date Collected: 07/15/2021 15:10

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 07/19/2021 11:38 Analyzed: 07/20/2021 19:23 Analyte Unit/RL: mg/Kg Benzene <0.00200 U 0.00200 Toluene <0.00200 U 0.00200 Ethylbenzene <0.00200 U 0.00200 m-Xylene & p-Xylene <0.00401 U 0.00401 <0.00200 U 0.00200 o-Xylene Xylenes, Total <0.00401 U 0.00401 Total BTEX <0.00401 U 0.00401

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

Prepared: 07/20/2021 09:45 Analyzed: 07/25/2021 17:04 RL Unit/RL: mg/Kg Analyte 50.0 Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 C10-C28) <50.0 U 50.0 Oll Range Organics (Over C28-C36)

Total TPH <50.0 U 50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:

 Analyzed:
 07/22/2021 07:34

 Analyte
 Unit/RL:
 mg/Kg
 RL

 Chloride
 128
 5.00

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

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

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

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

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

CONDITIONS

Action 44303

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 44303
· · · · · · · · · · · · · · · · · · ·	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2116030736 POKER LAKE UNIT NORTH FRAC POND, thank you. This closure is approved.	11/22/2021