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	NAPP2132241976
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party OGRID						
Contact Name Contact T			Contact Te	elephone		
Contact emai	1			Incident #	(assigned by OCD))
Contact mail	ing address			1		
			Location	of Release So	ource	
Latitude			(NAD 83 in dec	Longitude _ imal degrees to 5 decim	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	licable)	
Unit Letter	Section	Township	Range	Coun	nty]
Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls)						
Crude Oil		Volume Release			Volume Reco	` '
	Produced Water Volume Released (bbls) Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?		Yes N			
Condensate Volume Released (bbls)			Volume Reco	vered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Reco	overed (Mcf)		
Other (describe) Volume/Weight Released (provide units)		Volume/Weig	ght Recovered (provide units)			
Cause of Rele	ease					

Received by OCD: 3/18/2022 1:44:14 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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		,, ,	

Incident ID	NAPP2132241976
District RP	
Facility ID	
Application ID	

release as defined by	YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☐ No	
If YES, was immediate notice	given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	g
	Initial Response
The responsible party n	nust undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the release h	nas been stopped.
	en secured to protect human health and the environment.
Released materials have be	een contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recove	erable materials have been removed and managed appropriately.
If all the actions described abor	we have <u>not</u> been undertaken, explain why:
has begun, please attach a narr	the responsible party may commence remediation immediately after discovery of a release. If remediation rative of actions to date. If remedial efforts have been successfully completed or if the release occurred a (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	on given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	red to report and/or file certain release notifications and perform corrective actions for releases which may endanger. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In 141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name:	
Printed Name: Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Location:	PLU 30 BD Fed 126H		
Spill Date:	11/13/2021		
	Area 1		
Approximate A	rea =	64.00	sq. ft.
Average Satura	tion (or depth) of spill =	1.50	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Frac Fluid	=	5.04	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Frac Fluid	=	5.04	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oil	=	0.00	bbls
Total Frac Fluid	=	5.00	bbls

	Page 4 of 11	11
Incident ID	NAPP2132241976	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	> 100 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
	1.	

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☐ Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
☐ Topographic/Aerial maps
Laboratory data including chain of custody

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

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Incident ID	NAPP2132241976
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:	Adrian Baker	Title:	Environmental Coordinator
	Clobrian Bajos		
Signature:		Date:	02/11/2022
Email:	adrian.baker@exxonmobil.com	Telephone:	(432)-236-3808
OCD Only			
Received by:		Date:	

Received by OCD: 3/18/2022 1:44:14 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID NAPP2132241976
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.

Signature: Date: 02/11/2022 email: adrian.baker@exxonmobil.com Telephone: (432)-236-3808 DCD Only Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Date:	Closure Report Attachment Checklist: Each of the following ite	ems must be included in the closure report.		
must be notified 2 days prior to liner inspection)	□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Description of remediation activities Description of remediation activities				
Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, numan health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Adrian Baker Title: Environmental Coordinator Printed Name: Adrian Baker Title: Environmental Coordinator Printed Name: Adrian baker@exxonmobil.com Telephone: (432)-236-3808 Printed Name: Adrian.baker@exxonmobil.com Telephone: (432)-236-3808 Printed Name: Date: Date:	☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)		
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, numan health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Adrian Baker Title: Environmental Coordinator Printed Name:	□ Description of remediation activities			
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, numan health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Adrian Baker Title: Environmental Coordinator Printed Name: Adrian Baker Title: Date: Printed Name: O2/11/2022 Printed Name: Date: Date: Date: Date: Date: Date: _				
Signature: Date: 02/11/2022 email: adrian.baker@exxonmobil.com Telephone: (432)-236-3808 OCD Only Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Date:	and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remulation human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the confidence.	release notifications and perform corrective actions for releases which C-141 report by the OCD does not relieve the operator of liability ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in		
Date:	Printed Name: Adrian Baker	Title: Environmental Coordinator		
Doctor Only Received by:	Odrian Baks	Date: 02/11/2022		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:	email: adrian.baker@exxonmobil.com	Telephone:(432)-236-3808		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:	a cp a 1			
remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:	OCD Only Received by:	Date:		
L. C. M. C.	remediate contamination that poses a threat to groundwater, surface w	rater, human health, or the environment nor does not relieve the responsible		
T 'C NIV'	Closure Approved by: <u>Jannifar Nobui</u>	Date: 03/21/2022		
	Printed Name:Jennifer Nobui	Title: Environmental Specialist A		



WSP USA

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

March 17, 2022

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

RE: Closure Request
Poker Lake Unit 30 Brushy Draw Fed 126H
Incident Number nAPP2132241976
Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and delineation soil sampling activities at the Poker Lake Unit 30 Brushy Draw Fed 126H (Site) in Unit O, Section 30, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and delineation activities was to assess for the presence or absence of impacts to soil following a release of frac fluid at the Site. Based on the site assessment activities and laboratory analytical results from the soil sampling events, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Number nAPP2132241976.

Please note, this Closure Request is a resubmittal of the February 8, 2022, report with additional information regarding composition of the released frac fluid.

RELEASE BACKGROUND

On November 13, 2021, during frac operations, a low-pressure hose developed a leak. Approximately 5.04 barrels (bbls) of frac fluid were released onto the surface of the well pad. A vacuum truck was dispatched immediately and approximately 5.0 bbls of released fluid were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 18, 2021. The release was assigned Incident Number nAPP2132241976.

The frac fluid composition is produced water. Produced water is recycled through filtering and separation, then mixed in a blender with friction reducer and used as frac fluid during the well completion process. The safety data sheet (SDS) for friction reducer is provided as an attachment.



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. On February 4, 2020, WSP installed a soil boring (C-4394) utilizing a sonic drill rig approximately 1.28 miles north of the Site. Soil boring C-4394 was drilled to a depth of 110 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole lithologic/soil sampling log is included in Attachment 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 at the borehole location is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The location of borehole C-4394 is provided on Figure 1.

In addition, USGS well 320628103533001 located 1.75 miles northeast of the Site has a reported depth to water of 265 feet bgs, NMOSE well C 03782 located 1.48 miles east of the Site has a reported depth to water of 277 feet bgs, and NMOSE well C 01360 located 2.10 miles south of the Site has a reported depth to water of 173 feet bgs. The location of USGS well 320628103533001 and NMOSE wells C 03782 and C 01360 are provided on Figure 1 and the Well Records are included in Attachment 1. Although the data points listed above are greater than NMOCD's preferred 0.5-mile radius from the Site, the consistent presence of non-water bearing lithology observed in the borehole located north of the Site, and with water well data to the east and south of the Site indicating a depth to water greater than 170 feet bgs, WSP proposes the number of distribution of data points is sufficient to estimate depth to groundwater at the Site as greater than 100 feet bgs.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine located approximately 612 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 December 23, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Two preliminary assessment samples (SS01 and SS02) were collected from within the release extent from a depth of approximately 0.5 feet bgs to assess for the presence or absence of soil impacts at the ground surface. 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 SS01 and SS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. To further confirm the absence of impacted soil, additional lateral and vertical assessment activities were scheduled.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

During January 2022, WSP personnel returned to the Site to oversee additional vertical and lateral assessment activities to confirm the absence of impacted soil. One pothole (PH01) was advanced using a track-mounted backhoe to a depth of 4 feet bgs within the release extent. Delineation soil samples PH01, PH01A, and PH01B were collected at depths of 1-foot, 2 feet and 4 feet bgs, respectively. Soil from the pothole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the pothole were documented on a lithologic/soil sampling log, which is included in Attachment 2. Additionally, surface assessment samples SS03 though SS06 were collected from a depth of 0.5 feet bgs around the release extent



to confirm the lateral extent of the release. The delineation pothole and surface soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. The pothole and delineation soil sample locations are presented on Figure 3. Photographic documentation was conducted during the site visits. Photographic documentation is included in Attachment 3.

Laboratory analytical results for pothole soil samples PH01, PH01A, and PH01B and surface soil samples SS03 through SS06 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and provided lateral and vertical delineation to below the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the November 13, 2021 frac fluid release. Laboratory analytical results for the preliminary and delineation soil samples, collected within and around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, the release was laterally and vertically delineated to below the most stringent Table 1 Closure Criteria.

Based on the soil sample analytical results, no impacted soil was identified and no further remediation was required. As such, XTO respectfully requests no further action for Incident Number nAPP2132241976.

If you have any questions or comments, please do not hesitate to contact Ms. Aimee Cole at (720) 384-7365.

Linée Cale

Sincerely,

WSP USA Inc.

Nihaar Katoch Assistant Consultant, Geologist Aimee Cole Senior Consultant, Environmental Scientist



cc: Shelby Pennington, XTO Adrian Baker, XTO

Bureau of Land Management

Attachments:

Figure 1 Site Location Map

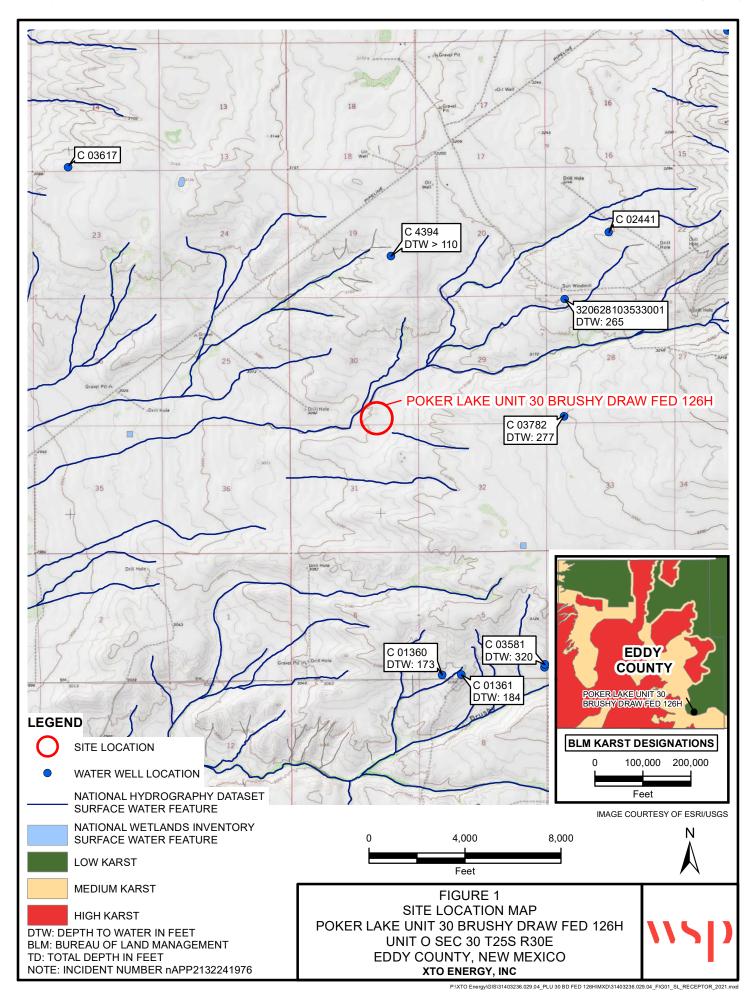
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations

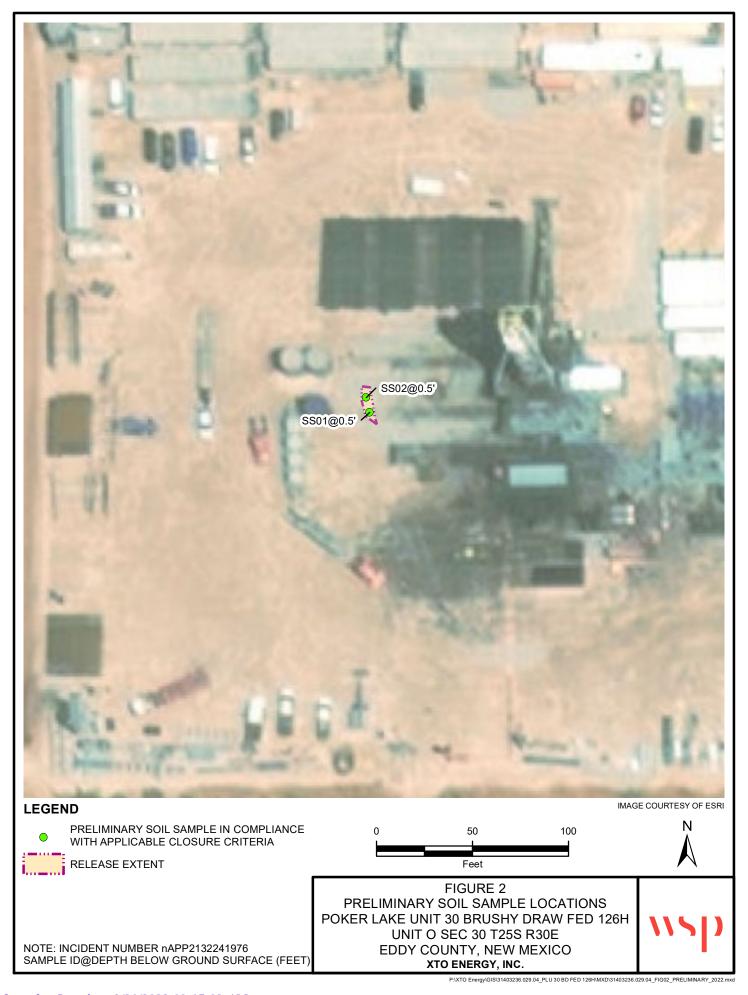
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/Sampling Logs

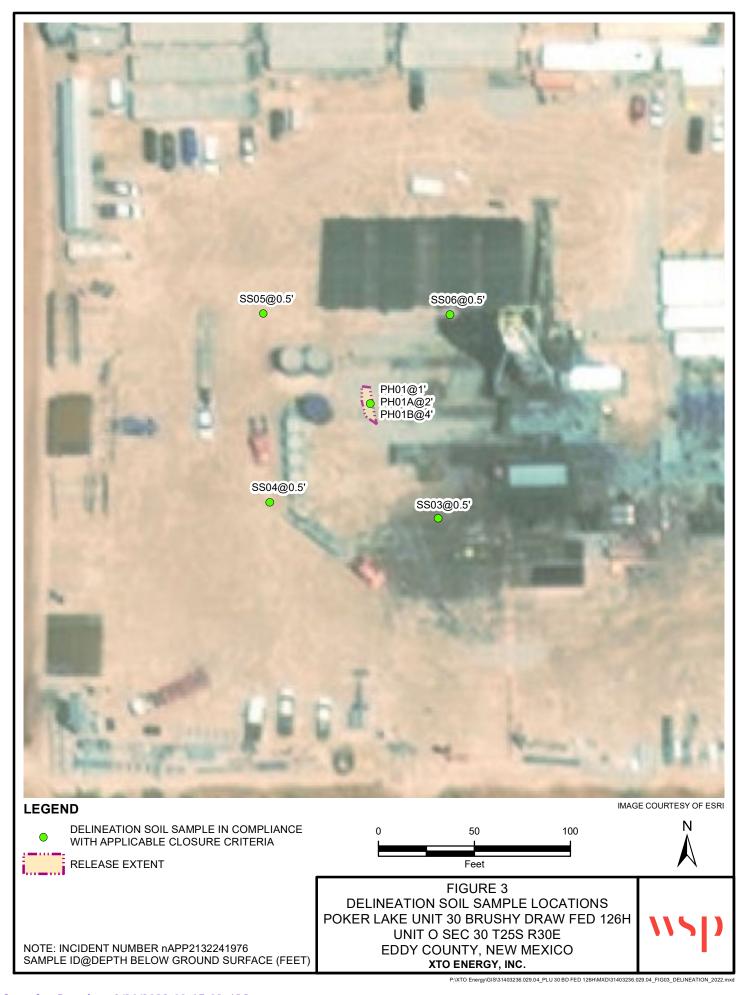
Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports

Attachment 5 SDS for Friction Reducer







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Table 1

Soil Analytical Results Poker Lake Unit 30 Brushy Draw Fed 126H Incident Number: nAPP2132241976 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil San	nples									
SS01	12/23/2021	0.5	< 0.00200	< 0.00399	57.0	<50.0	<49.9	57.0	57.0	2,870
SS02	12/23/2021	0.5	< 0.00199	< 0.00398	98.7	<50.0	< 50.0	98.7	98.7	3,040
Delineation Soil Sam	ples									
SS03	1/31/2022	0.5	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	63.1
SS04	1/31/2022	0.5	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	50.0
SS05	1/31/2022	0.5	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	53.2
SS06	1/31/2022	0.5	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	43.1
PH01	01/24/2022	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,090
PH01A	01/24/2022	2	<0.00199	< 0.00398	102	<49.9	<49.9	102	102	608
PH01B	01/24/2022	4	< 0.0400	< 0.0800	79.7	<50.0	<50.0	79.7	79.7	17.6

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - 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

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2	51				Engineering				ADU 816 PLO 423	ZRP-37	3.0	
		LITHO			L SAMP	ja		-	Logged By: FS	Method: SONIC	-	
Lat/Long	:				Field Scree	ning : CHL	ORIDES, F	PID.—	Hole Diameter: 4"/6"	Total Depth:	1	
Commen	ts: No	sam	plin	9,1	tholo	971	emar	Ks on				
Moisture Content	Chloride (ppm)	Vapor (ppm)		Sample #		Sample	Rock Pe		Lithology/Re	emarks		
					1]			hyd	rovac excavated	(refusal@11)		
٥			2		2	-	SW-S	2.5	SAND, dry coarse-fi light brwn no odor	, well gra ine grains - tan, no	ded, d, stain,	
D			1		5 _	-		5'	few silty so reddish br	and pock	cets,	
D					7 - 8		SP	6'	SAND, dry graded, lig brwn, fine	, poorly ht brwn - -very fine		2.5-4
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				×	23							
D			N		24	je j						* a



Compliance · Engineering · Remediation

LITHOLOGIC / SOIL SAMPLING LOG

| Field Screening: CHLORIDES, PID. | Hole Diameter: 4 // /6 | Total Depth: | 110'

Lat/I	ong:
Com	ments

Comme	nts:							/
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
4			2		26 <u> </u> 27 <u> </u> 28 <u> </u> 20		SP	27.5' SAND, dry, light brun- tan, poorly graded, fine-very fine grey-grey 30' trace light brun-tan
D	7		7		30 _			caliche pebbles (gravel), rounded
D			7		32	-	Section	31.5' color change light brun - teddish
m	2/	***	7	1	34 35 36	-	SW-5	brwn 33-34' abundant ss chunks, mod consol 35' ss chunks absent
m			7 7		37 38 39 40			reddish brun, few pebbles, rounded - subrounded, grey - light grey, few laminations
M		**	7	· .	41 42 43		2	42.5' clay laminations, trace, reddish brun
m	3		N		44 45 46	2	So S	44' color change, Light brun- tan, SILTY sand
D			N	17.1.	47 48		か 	44.50 SILTY sand light brwn -lan, no plasticity, non cohesive trace high plas clay nodules, reddish 48.5 lowplas clay band, orange
D			7	. 4.	49 7 50			48.5' lowplas clay band, orange 49.5' faint yellow band, (15-20 mm)

good of my



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Identifier: (C-04394) Date: 2/4/2020 MWOI Project Name: RP Number: ZRP-3790 PLU 423

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS Method: Sonic Field Screening: CHLORIDES, PID: Hole Diameter: 11 / 18 Total Depth:

Lat/Long	; :				Field Scree	ening: -CHL	ORIDES, P	'ID.	Hole Diameter: L	1 /6"	Total Depth: 110'	
Commen	ts:									<i>i</i>		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type			Lithology/Rem	arks	
Ð			7		51]	-	5P	51.5	nodi		plas cla	
D			7		53 _			ı			y ss, po ted, po	orty
η			N		55 _				gre	y band	(30 mm)	F**
M			Ν	, "	57 <u>-</u> 58 <u>-</u> 59 <u>-</u>	X		59,5	bru	un-brw	nd, light n, mois non coho	t, .
W			Ν	`	60	. j	sm	67			solidate	٦
D		Į į	7		61 62 63 64	2 4	s m-s	6	ct cl poc	lay nod	of silty	e e 5
m			N		65			v &		,	clay po w low pl	
m			7		68			71'			nd, dry	
6 3			7 7		69	1	s M	741	no p	los, no	n cohes n-tan iche pebl	ive,
D			7		74							



Compliance · Engineering · Remediation

PLU 423

2RP-3790

LITHOL	OGIC / SOIL SAMPLING LOG	Logged By: FS, 88	Method: sonic
Lat/Long:	Field Screening: CHLORIDES, PID.	Hole Diameter: 61/411	Total Depth:

Commen	its:							- 110	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Tyne	Lithology/Remarks	
D.			7		#] #]	76 77	SM	nodules reddish brwn	
D			7			78 79		821 Clay, moist, brun- greenish grey, low plasticity, cohesive,	ī
D			И		•	80	-	mostain, no odor mod consolidated 851 SILTY sand, dry,	
m			N			82 83 84	CL-S	no stain, no odor	
D	,)	1	N			80	sm	87" color change tan- off white g	
D			N		•	88	m-s	87' SILTSTONE, dry, wholay pockets, to w plas	
D			N		A +	90			
D	, a	3	N	*	•	91 92 93		91' abundant clay pockets 194.5' band yellow low plas clay	
D		9	Н	*	→ †	ne	sm H	2/5/20 end@95' 2/4,	2020
m M			ν N			96 97		95-101 CLAY, noist, brown - dark brown, high plasticity, cohesine, some tan clay laminations, no stein, no adur. 98-99' ten fire gran smodstone stringer.	
0			N		• ‡	78		98 - 99' ten fire gran smodstone stringer.	





Compliance · Engineering · Remediation

LITHOLOGIC / SOIL SAMPLING LOG

Identifier: (C-04394) Date: Z/5/2020
Project Name: RP Number:

PLV 423

Logged By: (6)

2RP-3790

Method: Sonie

		LITHU	LOGIC	/ 801		LING LO			Logged By:	D 1		Method: Donic
Lat/Long:					Field Scree	ning: CHLO	ORIDES, P	ID.	Hole Diame	ter: 6' /	/4"	Total Depth:
Comment	ts:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type			Lith	nology/Rem	narks
0			7		101]		SP-S	101'-	105'	SAV	NSTONE	tan-light boun,
D			٨		103		. 1	01	mente	d, poo	rly grad	ed, no strik,
٥			٦		104				110	•	Y ~~*	tidick brown -
M			N		106		CH	bn tra	wn, h.	sh pl	esticity	duk bown -, cohesine, trum
P			N		107			0.0	er.			, no Stain, no
0			~		108			พ7'-	109'	tan -	1:5ht be	own well
m			N		110			8	Frinzer	,	Time gri	m sons (1.
					111		TD AID	TI	D e	110'		%
					113							
					115	·	5.					1
					116							
					118							
					119]							
					121							
					122							
					123							
					125							



												
7 .	OSE POD NU	_			·	۸. ۸ ک		OSE FILE NUM	* *	Ren	umbere C-383	e d
IOI	POD-1 WELLOWN	./ / 	eny	mBered C	<u> </u>	002		PHONE (OPTION	x Ploratory)	<u> (-383</u>	<u> </u>
OCAT	ворсо,		IE(S)		•			(817) 390-	•			
AND WELL LOCATION	WELL OWN 201 N M				i .			Fort Wort	h	state TX	761	ZIP 02
Q.	WELL			DEGREES			S			<u> </u>		
L.A	LOCATIO	N	LATII	TUDE 32	05	40.1	N		REQUIRED: ONE TEN	TH OF A	SECOND	
ER/	(FROM GI	?S)	LONG	ITUDE 103	53	32.2	w	* DATUM REG	QUIRED: WGS 84			
GENERAL	DESCRIPTION	N RELATI	NG WEL	LL LOCATION TO STREE	TADDRESS AND COMM	ON LANDMARKS - PLSS	SECTION, TO	OWNSHJIP, RANG	E) WHERE AVAILABLE	· 1		VE 25 MARY 1 MARY
1.	SW1/4SE	1/45V	V1/49	SW1/4 of Sectio	n 28, Township	25 South, Rang	e 30 East	, in the NE o	orner of a well p	ad.		
	LICENSE NU	лмвек		NAME OF LICENSED	DRILLER		·		NAME OF WELL DR		OMPANY	
	331			Joel H. Stewart					SBQ Drilling, LI			
	01-16-15		- 1		DEPTH OF COMPLET 805	ED WELL (FT)	BORE HO! ±805	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCO	UNTERED (F)	r)
	COMPLETE	D WELL	1S: (ARTESIAN	O DRY HOLE	SHALLOW (UNCO	NFINED)	· · ·	STATIC WATER LEV	EL IN CO	OMPLETED W	ELL (FT)
ATION	DRILLING F	LUID:		AIR	МИТО	ADDITIVES – SPE	CIFY:					
RM	DRILLING N	ÆTHOD	. (ROTARY	C HAMMER C	CABLE TOOL	О отне	R - SPECIFY:				
NFO	DEPTH	(feet bg	gl)	BORE HOLE	CASING MATE			ASING	CASING	CASI	ING WALL	SLOT
CASING INFORMATION	FROM	Т	0	DIAM (inches)	GRA (include each ca note section	sing string, and	CON	NECTION TYPE	INSIDE DIAM. (inches)	THI	ICKNESS (inches)	SIZE (inches)
S C	O	270		14.75	ASIM A53B		Welded	t	8.625	0.32	22	35
Ş	270	805		14.75	304 Stainless	Steel	Welded	t	8.625	0.25)	<i>17</i> ,16
2. DRILLING	0	15		19	AS1M A53B				16	0.25	5 🖽	
DRI											- 50	1 22
7										<u> </u>		355 555
										<u> </u>	:: 1	ි න ය උ
									·		N	
										 	W.	
	DEPTH	(feet bg	;l)	BORE HOLE		NULAR SEAL MA			AMOUNT		METHO	
IAL	FROM	TO		DIAM. (inches)		ACK SIZE-RANGI	E BY INTE	RVAL	(cubic feet)		PLACE	
ANNULAR MATERIAL	0	120		14.75	Sand Mix Rea	· -			90.36		grav. trem	
MA.	120	170		14.75	Hydrated Ben				35.90		grav. trem	
AR	170	805		14.75	6/9 Silica Sand	<u> </u>			455.95		Tremie Pi	pe
Į,												
ANI												
3												
<u> </u>				<u> </u>		2 A	. 4					
FOR	OSE INTER	NAL U	SE	<u>Kenumbere</u>	d from C-3	5782-POL	01	r	WELL RECORD			08/2012)
FILE	NUMBER	L -3	83	2		POD NUMBER	POD:	Z TRNI	NUMBER 5 55	125		71077
LOC	CATION	Z5.	<u> 20.</u>	28.334	3						PAGI	E 1 OF 2

	DEPTH (eet bgl)	THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES	WATER BEARING?	ESTIMATED YIELD FOR WATER-
	FROM	то	(feet)	(attach supplemental sheets to fully describe all units)	(YES/NO)	BEARING ZONES (gpm)
	Ü	30	30	Cemented Sand, light tan, sub-angular	$O_A O_N$	
	30	40	10	Sandy Silt, light brown, sub-angular	СхОи	
	40	60	20	Sandy clay, reddish brown	OAON	
	60	80	20	Silty Sand, light brown, sub-angular	$O_A O_N$	
:	80	250	170	Fine to Medium Sand, light tan, sub-angular to rounded	$O_A O_N$	
ų	250	260	10	Clayey Sand, brown, sub-angular	$O_A O_N$	
4. HYDROGEOLOGIC LOG OF WELL	260	320	60	Fine Sand, light tan, sub-angular	⊙ ^ү С ^ү	
OF.	320	380	60	Silty Sand, brownish gray, sub-angular	\odot Y \bigcirc N	
00	380	410	30	Fine Sand, dark gray, sub-angular	\bullet Y O N	
ICI	410	530	120	Clayey Fine Sand, dark gray, sub-angular	● Y C N	
507	530	590	60	Sandy Clay, dark gray, sub-angular	© Y O N	
Ō	590	600	10	Clayey Fine Sand, dark gray, sub-angular	© Y O N	
ROG	600	630	30	Sandy Clay, dark gray, sub-angular	© Y O N	
Z.	630	650	20	Clayey Sand, dark gray, sub-angular	© Y O N	
4.1	650	700	50	Sandy Clay, dark gray, sub-angular	© Y O N	
	700	710	10	Clayey Sand, brown and gray, sub-angular	© Y O N	
	710	760	50	Sandy Clay, dark gray, sub-angular	© Y O N	
	760	770	10	Clay, 75% gray, 25% red	© Y O N	
	770	780	10	Clay, 50% gray, 50% red	© Y O N	,
	780	790	10	Clay, 25% gray, 75% red	© Y O N	
	790	805	15	Sandy Clay, Grayish red, 10% white sand.	● Y ○ N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: PUMP	TOTAL ESTIMATED	TOD
	C AIR LIF	r Oi	BAILER 💽	OTHER – SPECIFY: TBD by pump test	WELL YIELD (gpm):	TBD
ON	WELL TES	TEST STAR	RESULTS - ATT I TIME, END TI	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE	LUDING DISCHARGE N ER THE TESTING PERIO	AETHOD, SE
TEST; RIG SUPERVISIO			ORMATION:			
JP EL	Pump tes Hydratec	it will be p I Bentonit	performed at a	a later time. and Mix Ready Mix were placed by gravity and tagged with	tremie nipe.	
S SI	riyaracca	Contonic	e emps and s	and mix heady mix here placed by gravity and tagged mis-		
; RI					12 14	
LES	PRINT NAM	Œ(S) OF DE	ULL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON		
ν,	Silverio G	ialindo, G	abriel Armijo,	Pedro Pizano	Ĭ,	A Sq
田	THE UNDE	RSIGNED H	EREBY CERTIF F THE ABOVE D	TIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELII DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RI	EF, THE FOREGOING IS ECORD WITH THE STA	A TRUE AND TE ENGINEER
TUR	AND THE P	ERMIT HO	LDER WITHIN 2	20 DAYS AFTER COMPLETION OF WELL DRILLING:		
6. SIGNATURE	1	1 1/2	10	Tool H. Stewart 2	- 12-10-	
6. S	free	SIGNIA TI	JO DE DEUT E	ER / PRINT SIGNEE NAME	DATE	
		DIONAL	OKE OF DRILLE	A LANI DIOLEDIZATE		. wasyookaaning ja dalaha

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER (-3832 POD NUMBER POD 2 TRN NUMBER 555/25

LOCATION 25.30.28.3343 PAGE 2 OF 2



New Mexico Office of the State Engineer

Point of Diversion Summary

26S 30E

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

05

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

 \mathbf{X} 602997

Driller License:

C 01360

3548152

Driller Company:

FOLK DRILLING CO.

Driller Name:

Drill Start Date: 04/26/1952 **Drill Finish Date:**

05/15/1952

Plug Date:

Source:

Log File Date:

11/17/1953

PCW Rcv Date:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

12.75

Depth Well:

770 feet

Depth Water:

173 feet

Water Bearing Stratifications:

Top Bottom Description 210

Sandstone/Gravel/Conglomerate

580 Sandstone/Gravel/Conglomerate 665 Sandstone/Gravel/Conglomerate

725

770 Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom Top 180

538

770 Meter Make:

289

SIEMENS

Meter Serial Number: L1254823

Meter Multiplier:

100.0000

Number of Dials:

Meter Number:

8

16557

Meter Type:

Diversion

Unit of Measure: **Usage Multiplier:** Gallons

Return Flow Percent: Reading Frequency:

Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
07/01/2014	2014	234997	A	RPT	0
09/30/2014	2014	354169	A	RPT	36.573
11/20/2014	2014	7281000	A	RPT	0
12/31/2014	2014	11430100	A	RPT	12.733
04/01/2015	2015	22535200	A	RPT	34.080
07/01/2015	2015	35821800	A	RPT	40.775
10/05/2015	2015	46631200	A	RPT	33.173
12/31/2015	2015	55653200	A	RPT	27.688
01/31/2016	2016	58047600	A	RPT	7.348
02/29/2016	2016	61081100	A	RPT	9.309
03/31/2016	2016	62593100	A	RPT	4.640
06/30/2016	2016	71642600	A	RPT	27.772
10/03/2016	2016	81998399	A	RPT	31.781
12/31/2016	2016	90558600	A	RPT	26.270
04/04/2019	2019	164290087	A	RPT	226.274
10/02/2019	2019	790380	A	RPT METER CHANGE OUT	0

				07/2019	
01/02/2020	2020	1733720	A	RPT	
04/07/2021	2021	36814117	A	WEB	
07/27/2021	2021	36836238	A	WEB	
10/04/2021	2021	36844496	A	WEB	
12/31/2021	2021	36847463	A	WEB	
** V I I I VI ATA	r Amounts.	Vear		A mount	
** Y I D Mete	r Amounts:			Amount	
** Y ID Mete	r Amounts:	2014		49.306	
**YID Mete	r Amounts:				
**YID Mete	r Amounts:	2014		49.306	
* * Y I D Mete	r Amounts:	2014 2015		49.306 135.716	
~~YID Mete	r Amounts:	2014 2015 2016		49.306 135.716 107.120	
**YID Mete	r Amounts:	2014 2015 2016 2019	1	49.306 135.716 107.120 226.274	

Meter Number: 16558 Meter Make: MASTERMETER

Meter Serial Number:32530403Meter Multiplier:100.0000Number of Dials:6Meter Type:Diversion

Unit of Measure:GallonsReturn Flow Percent:Usage Multiplier:Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year M	tr Reading	Fla	g Rdr Comment	Mtr Amount Online
10/01/2014	2014	354169	A	RPT	0
11/20/2014	2014	415555	A	RPT	18.839
11/21/2014	2014	72810	A	RPT	0
12/31/2014	2014	112178	A	RPT	12.082
02/01/2015	2015	147039	A	RPT	10.698
03/02/2015	2015	188133	A	RPT	12.611
04/01/2015	2015	224102	A	RPT	11.038
04/30/2015	2015	270723	A	RPT	14.307
05/31/2015	2015	315628	A	tw	13.781
07/01/2015	2015	369075	A	tw	16.402
08/01/2015	2015	395528	A	tw	8.118
08/31/2015	2015	455361	A	tw	18.362
10/01/2015	2015	466312	A	RPT	3.361
**YTD Meter Amounts:		Year		Amount	
		2014		30.921	
		2015		108.678	

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

2/8/22 1:36 PM

POINT OF DIVERSION SUMMARY



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	(Cooperator Access)	Data Category:		Geographic Area:		
0303 Water Resources	(Cooperator Access)	Groundwater ~	•	United States	✓	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water <u>data</u> from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

320628103533001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320628103533001 25S.30E.21.333424

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°06'28", Longitude 103°53'30" NAD27

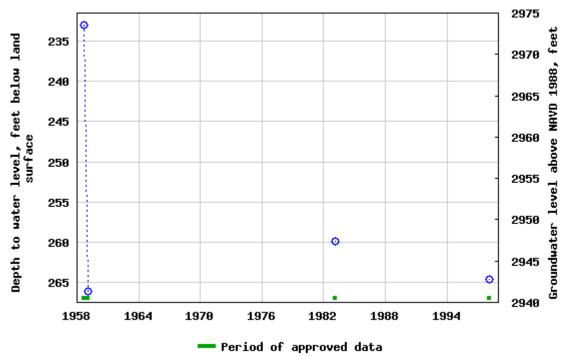
Land-surface elevation 3,207 feet above NAVD88 The depth of the well is 288 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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

USGS 320628103533001 255,30E,21,333424



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

Questions about sites/data?
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Data Tips
Explanation of terms
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2022-02-03 13:07:48 EST

0.69 0.61 nadww02



									BH or PH Name:		Date:
7		T	7		W	SP USA			PH01		1/24/2022
WSP USA 508 West Stevens Street Cataland New Maying 88220						Stevens St		Site Name: PLU 30 BD Fed 126H			
	Carlsbad, New Mexico 88220							RP or Incident Number: r		2241976	
							WSP Job Number: 31403236.029				
	LITHOLOGIC / SOIL SAMPLING LOG								Logged By: PB		Method: Backhoe
Lat/Lo		0.47005			Field Scre				Hole Diameter:		Total Depth:
	4514, -103		ld scre	eninas includ	TPH ,Chlo		nr		N/A		4 feet bgs
	Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	bgs)	uscs Syn			iology/R	
					1	0	CCHE			brown,	unconsolidated, no stain, no
D	3,976	0.9	N	PH01	1	1	SP	odor, 1'-4', SA		ndant sil	It, caliche gravel, coarse to
								medi	um grain, poorly sort		lerately graded, no stain, no
D	589.0	2.0	N	PH01A	2	2		odor.			
D	<124	2.4	Ν		3	3					
D	<124	1.9	N	PH01B	4	4					
	<124	1.9	14	FIIOID	†						
							TD @	4 feet b	gs		



	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	POKER LAKE UNIT 30 BRUSHY DRAW FED 126H	NAPP2132241976
	EDDY COUNTY, NEW MEXICO	

Photo No. Date
December 23,
2021

View of release area during initial

site assessment.



Photo No.	Date		
2	December 23,		
2	2021		

View of release area during initial site assessment.





	PHOTOGRAPHIC LOG		
XTO Energy, Inc. POKER LAKE UNIT 30 BRUSHY DRAW FED 126H NAPP21322419			
	EDDY COUNTY, NEW MEXICO		

Photo No.	Date			
3	January 24, 2022			
View facing southeast of delineation				
activities.				



Photo No.	Date			
4	January 24, 2022			
View facing northeast of delineation				
activities.				





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1757-1

Laboratory Sample Delivery Group: 31403236.029 Client Project/Site: PLU 30 BD Fed 126H Task04.02

For:

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

Attn: Benjamin Belill

JURAMER

Authorized for release by: 12/30/2021 10:27:45 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 3/21/2022 10:17:09 AM

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.

1

3

4

0

9

111

13

14

Client: WSP USA Inc.
Project/Site: PLU 30 BD Fed 126H Task04.02

Laboratory Job ID: 890-1757-1 SDG: 31403236.029

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1757-1 Project/Site: PLU 30 BD Fed 126H Task04.02

SDG: 31403236.029

Qualifiers

GC VOA Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

*+ LCS and/or LCSD is outside acceptance limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 890-1757-1 Project/Site: PLU 30 BD Fed 126H Task04.02 SDG: 31403236.029

Job ID: 890-1757-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1757-1

Receipt

The samples were received on 12/27/2021 11:54 AM. 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 4.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15651 and analytical batch 880-15623 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-15659 and analytical batch 880-15677 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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.

Job ID: 890-1757-1

Matrix: Solid

Lab Sample ID: 890-1757-1

Client: WSP USA Inc.

Project/Site: PLU 30 BD Fed 126H Task04.02 SDG: 31403236.029

Client Sample ID: SS01

Date Collected: 12/23/21 11:25 Date Received: 12/27/21 11:54

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		12/28/21 13:02	12/29/21 01:01	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		12/28/21 13:02	12/29/21 01:01	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		12/28/21 13:02	12/29/21 01:01	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399	mg/Kg		12/28/21 13:02	12/29/21 01:01	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		12/28/21 13:02	12/29/21 01:01	1
Xylenes, Total	<0.00399	U F1	0.00399	mg/Kg		12/28/21 13:02	12/29/21 01:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/28/21 13:02	12/29/21 01:01	1
1,4-Difluorobenzene (Surr)	112		70 - 130			12/28/21 13:02	12/29/21 01:01	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/30/21 10:20	1
Method: 8015 NM - Diesel Range	e Organics (DR	U) (GC)						
_		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte			RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/30/21 10:33	
_	Result 57.0	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 57.0 ge Organics (Di	Qualifier			<u>D</u>	Prepared Prepared		1
Analyte Total TPH	Result 57.0 ge Organics (Di	Qualifier RO) (GC) Qualifier	50.0	mg/Kg	=	<u> </u>	12/30/21 10:33	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 57.0 ge Organics (Dige Result	Qualifier RO) (GC) Qualifier U	50.0	mg/Kg	=	Prepared	12/30/21 10:33 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 57.0 ge Organics (Dige Result < 50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg	=	Prepared 12/28/21 13:53	12/30/21 10:33 Analyzed 12/29/21 14:00	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier RO) (GC) Qualifier U *+	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/28/21 13:53 12/28/21 13:53	12/30/21 10:33 Analyzed 12/29/21 14:00 12/29/21 14:00	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier RO) (GC) Qualifier U *+	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/28/21 13:53 12/28/21 13:53	Analyzed 12/29/21 14:00 12/29/21 14:00	Dil Face 1 1 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier RO) (GC) Qualifier U *+	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/28/21 13:53 12/28/21 13:53 12/28/21 13:53 Prepared	Analyzed 12/29/21 14:00 12/29/21 14:00 Analyzed Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier RO) (GC) Qualifier U *+ U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/28/21 13:53 12/28/21 13:53 12/28/21 13:53 Prepared 12/28/21 13:53	12/30/21 10:33 Analyzed 12/29/21 14:00 12/29/21 14:00 Analyzed 12/29/21 14:00	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier RO) (GC) Qualifier U *+ U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/28/21 13:53 12/28/21 13:53 12/28/21 13:53 Prepared 12/28/21 13:53	12/30/21 10:33 Analyzed 12/29/21 14:00 12/29/21 14:00 Analyzed 12/29/21 14:00	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac Dil Fac

Client Sample ID: SS02

Date Collected: 12/23/21 11:30

Date Received: 12/27/21 11:54

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/28/21 13:02	12/29/21 01:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/28/21 13:02	12/29/21 01:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/28/21 13:02	12/29/21 01:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/28/21 13:02	12/29/21 01:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/28/21 13:02	12/29/21 01:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/28/21 13:02	12/29/21 01:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/28/21 13:02	12/29/21 01:22	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1757-2

Matrix: Solid

Lab Sample ID: 890-1757-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1757-1

Project/Site: PLU 30 BD Fed 126H Task04.02 SDG: 31403236.029

Client Sample ID: SS02 Date Collected: 12/23/21 11:30

3040

Date Received: 12/27/21 11:54 Sample Depth: 0.5

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130			12/28/21 13:02	12/29/21 01:22	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/30/21 10:20	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.7		50.0	mg/Kg			12/30/21 10:33	1
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/28/21 13:53	12/29/21 14:21	1
Diesel Range Organics (Over	98.7	*+	50.0	mg/Kg		12/28/21 13:53	12/29/21 14:21	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/28/21 13:53	12/29/21 14:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/28/21 13:53	12/29/21 14:21	1
o-Terphenyl	106		70 - 130			12/28/21 13:53	12/29/21 14:21	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

24.8

mg/Kg

12/28/21 18:17

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1757-1 Project/Site: PLU 30 BD Fed 126H Task04.02 SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogat
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1757-1	SS01	115	112	
890-1757-1 MS	SS01	116	81	
890-1757-1 MSD	SS01	108	98	
890-1757-2	SS02	112	107	
LCS 880-15651/1-A	Lab Control Sample	101	107	
LCSD 880-15651/2-A	Lab Control Sample Dup	103	95	
MB 880-15624/5-A	Method Blank	116	113	
MB 880-15651/5-A	Method Blank	108	108	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (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)	
890-1751-A-1-B MS	Matrix Spike	110	93	
890-1751-A-1-C MSD	Matrix Spike Duplicate	110	93	
890-1757-1	SS01	108	110	
890-1757-2	SS02	104	106	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-15659/2-A	Lab Control Sample	100	96	
LCSD 880-15659/3-A	Lab Control Sample Dup	121	123	
MB 880-15659/1-A	Method Blank	102	105	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

Job ID: 890-1757-1 Client: WSP USA Inc. Project/Site: PLU 30 BD Fed 126H Task04.02 SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15624/5-A

Analysis Batch: 15623

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15624

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/28/21 10:04	12/28/21 13:45	1

MB MB

MR MR

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/28/21 10:04	12/28/21 13:45	1
1,4-Difluorobenzene (Surr)	113		70 - 130	12/28/21 10:04	12/28/21 13:45	1

Lab Sample ID: MB 880-15651/5-A

Matrix: Solid

Analyte

Analysis Batch: 15623

Client Sample ID: Method Blank

Analyzed

Prepared

Prep Type: Total/NA

Prep Batch: 15651

Dil Fac

Benzene <0.00200 U 0.00200 mg/Kg 12/28/21 13:02 12/29/21 00:39 Toluene <0.00200 U 0.00200 mg/Kg 12/28/21 13:02 12/29/21 00:39 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/28/21 13:02 12/29/21 00:39 <0.00400 U 0.00400 m-Xylene & p-Xylene mg/Kg 12/28/21 13:02 12/29/21 00:39 <0.00200 U 0.00200 o-Xylene mg/Kg 12/28/21 13:02 12/29/21 00:39 12/28/21 13:02 Xylenes, Total <0.00400 U 0.00400 mg/Kg 12/29/21 00:39

RL

Unit

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/28/21 13:02	12/29/21 00:39	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/28/21 13:02	12/29/21 00:39	1

Lab Sample ID: LCS 880-15651/1-A

Matrix: Solid

Analysis Batch: 15623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 15651

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08352		mg/Kg		84	70 - 130	
Toluene	0.100	0.07913		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.07795		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	0.200	0.1548		mg/Kg		77	70 - 130	
o-Xylene	0.100	0.07982		mg/Kg		80	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-15651/2-A

Matrix: Solid

Analysis Batch: 15623

Client	Sample	ID: Lat	Control	Sample Dup

Prep Type: Total/NA Prep Batch: 15651

0/ Baa

	Spike	LCSD LCSD				MRC.		KFD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07468	mg/Kg		75	70 - 130	11	35

LCCD LCCD

Cnika

Prep Batch: 15651

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1757-1 Project/Site: PLU 30 BD Fed 126H Task04.02 SDG: 31403236.029

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

Lab Sample ID: LCSD 880-15651/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15623

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.07364		mg/Kg		74	70 - 130	7	35
Ethylbenzene	0.100	0.07284		mg/Kg		73	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1461		mg/Kg		73	70 - 130	6	35
o-Xylene	0.100	0.07519		mg/Kg		75	70 - 130	6	35

LCSD LCSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 103 1,4-Difluorobenzene (Surr) 95 70 - 130

Lab Sample ID: 890-1757-1 MS Client Sample ID: SS01 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15623 Prep Batch: 15651

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.0998 0.05503 F1 Benzene <0.00200 UF1 ma/Ka 55 70 - 130 Toluene <0.00200 U F1 0.0998 0.05714 F1 57 70 - 130 mg/Kg 0.0998 Ethylbenzene < 0.00200 UF1 0.05026 F1 mg/Kg 50 70 - 130 0.1116 F1 0.200 56 70 - 130 m-Xylene & p-Xylene <0.00399 UF1 mg/Kg o-Xylene <0.00200 UF1 0.0998 0.05151 F1 mg/Kg 52 70 - 130

MS MS Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 116 1,4-Difluorobenzene (Surr) 81 70 - 130

Lab Sample ID: 890-1757-1 MSD **Client Sample ID: SS01** Prep Type: Total/NA

Matrix: Solid Analysis Batch: 15623

Sample Sample MSD MSD Spike %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00200 U F1 0.101 0.06147 F1 mg/Kg 61 70 - 130 11 35 Toluene <0.00200 UF1 0.101 0.05994 F1 mg/Kg 59 70 - 130 5 35 Ethylbenzene <0.00200 UF1 0.101 0.06056 F1 mg/Kg 60 70 - 130 19 35 0.202 0.1227 F1 61 m-Xylene & p-Xylene <0.00399 U F1 mg/Kg 70 - 130 9 35 o-Xylene <0.00200 UF1 0.101 0.06165 F1 mg/Kg 61 70 - 130 18 35

MSD MSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 108 70 - 130 1,4-Difluorobenzene (Surr) 98 70 - 130

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

Lab Sample ID: MB 880-15659/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15677 Prep Batch: 15659 MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 12/28/21 13:53 12/29/21 10:02 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

Prep Batch: 15651

12/30/2021

Client: WSP USA Inc.

Project/Site: PLU 30 BD Fed 126H Task04.02

Job ID: 890-1757-1

SDG: 31403236.029

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

Lab Sample ID: MB 880-15659/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-15659/2-A

Matrix: Solid

Analysis Batch: 15677

Analysis Batch: 15677

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15659

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/28/21 13:53	12/29/21 10:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/28/21 13:53	12/29/21 10:02	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	12/28/21 13:53	12/29/21 10:02	1
o-Terphenyl	105		70 - 130	12/28/21 13:53	12/29/21 10:02	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15659

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1088 mg/Kg 109 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1110 mg/Kg 111 70 - 130 C10-C28)

LCS LCS

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-15659/3-A

Matrix: Solid Analysis Batch: 15677 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15659

	Sı	ike LCSI	LCSD				%Rec.		RPD	
Analyte	Ad	ed Resu	lt Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1	118	8	mg/Kg		119	70 - 130	9	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1	00 131	1 *+	mg/Kg		131	70 - 130	17	20	
040,000)										

C10-C28)

	LCSD	LUJD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: 890-1751-A-1-B MS

Matrix: Solid

Analysis Batch: 15677

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 15659

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1990	2008		mg/Kg		101	70 - 130	
Diesel Range Organics (Over	64.4	F1 *+	1990	1989		mg/Kg		97	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	93		70 - 130

Client: WSP USA Inc. Job ID: 890-1757-1 Project/Site: PLU 30 BD Fed 126H Task04.02

SDG: 31403236.029

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

Lab Sample ID: 890-1751-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 15677 Prep Batch: 15659 Sample Sample MSD MSD RPD Spike Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Unit D

Analyte Gasoline Range Organics <49.9 U F1 2000 2003 mg/Kg 100 70 - 130 0 20 (GRO)-C6-C10 64.4 F1*+ 2000 1983 Diesel Range Organics (Over mg/Kg 96 70 - 1300 20

C10-C28)

MSD MSD %Recovery Limits Surrogate Qualifier 70 - 130 1-Chlorooctane 110 o-Terphenyl 93 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15648/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 15652

MB MB

Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 12/28/21 15:59

Lab Sample ID: LCS 880-15648/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15652

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 258.5 90 - 110 mg/Kg 103

Lab Sample ID: LCSD 880-15648/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15652

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 258.7 103 90 - 110 mg/Kg 0

Lab Sample ID: 880-9629-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 15652

Sample Sample Spike MS MS %Rec. Qualifier Added Qualifier Analyte Result Result %Rec Limits Unit Chloride 251 100 90 - 110 54.7 305.8 mg/Kg

Lab Sample ID: 880-9629-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 15652

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D 251 95 Chloride 54.7 294.4 90 - 110 20 mg/Kg

Eurofins Xenco, Carlsbad

Prep Type: Soluble

QC Association Summary

Client: WSP USA Inc.

Project/Site: PLU 30 BD Fed 126H Task04.02

Job ID: 890-1757-1 SDG: 31403236.029

GC VOA

Analysis Batch: 15623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1757-1	SS01	Total/NA	Solid	8021B	15651
890-1757-2	SS02	Total/NA	Solid	8021B	15651
MB 880-15624/5-A	Method Blank	Total/NA	Solid	8021B	15624
MB 880-15651/5-A	Method Blank	Total/NA	Solid	8021B	15651
LCS 880-15651/1-A	Lab Control Sample	Total/NA	Solid	8021B	15651
LCSD 880-15651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15651
890-1757-1 MS	SS01	Total/NA	Solid	8021B	15651
890-1757-1 MSD	SS01	Total/NA	Solid	8021B	15651

Prep Batch: 15624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15624/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 15651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1757-1	SS01	Total/NA	Solid	5035	
890-1757-2	SS02	Total/NA	Solid	5035	
MB 880-15651/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15651/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15651/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1757-1 MS	SS01	Total/NA	Solid	5035	
890-1757-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 15797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1757-1	SS01	Total/NA	Solid	Total BTEX	
890-1757-2	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1757-1	SS01	Total/NA	Solid	8015NM Prep	
890-1757-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-15659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1751-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1751-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1757-1	SS01	Total/NA	Solid	8015B NM	15659
890-1757-2	SS02	Total/NA	Solid	8015B NM	15659
MB 880-15659/1-A	Method Blank	Total/NA	Solid	8015B NM	15659
LCS 880-15659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15659
LCSD 880-15659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15659
890-1751-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	15659
890-1751-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15659

Eurofins Xenco, Carlsbad

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QC Association Summary

Client: WSP USA Inc.

Project/Site: PLU 30 BD Fed 126H Task04.02

Job ID: 890-1757-1

SDG: 31403236.029

GC Semi VOA

Analysis Batch: 15798

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	890-1757-1	SS01	Total/NA	Solid	8015 NM	
Į	890-1757-2	SS02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1757-1	SS01	Soluble	Solid	DI Leach	
890-1757-2	SS02	Soluble	Solid	DI Leach	
MB 880-15648/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15648/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15648/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9629-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9629-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1757-1	SS01	Soluble	Solid	300.0	15648
890-1757-2	SS02	Soluble	Solid	300.0	15648
MB 880-15648/1-A	Method Blank	Soluble	Solid	300.0	15648
LCS 880-15648/2-A	Lab Control Sample	Soluble	Solid	300.0	15648
LCSD 880-15648/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15648
880-9629-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	15648
880-9629-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15648

Client: WSP USA Inc.

Job ID: 890-1757-1 Project/Site: PLU 30 BD Fed 126H Task04.02 SDG: 31403236.029

Client Sample ID: SS01 Lab Sample ID: 890-1757-1

Date Collected: 12/23/21 11:25 Matrix: Solid Date Received: 12/27/21 11:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 01:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15797	12/30/21 10:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15798	12/30/21 10:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15659	12/28/21 13:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15677	12/29/21 14:00	AJ	XEN MID
Soluble	Leach	DI Leach			15648	12/28/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		5	15652	12/28/21 18:07	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-1757-2

Date Collected: 12/23/21 11:30 Matrix: Solid

Date Received: 12/27/21 11:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 01:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15797	12/30/21 10:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15798	12/30/21 10:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15659	12/28/21 13:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15677	12/29/21 14:21	AJ	XEN MID
Soluble	Leach	DI Leach			15648	12/28/21 12:08	CH	XEN MID
Soluble	Analysis	300.0		5	15652	12/28/21 18:17	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: 890-1757-1 Project/Site: PLU 30 BD Fed 126H Task04.02 SDG: 31403236.029

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytee	are included in this report by		and boundless are considered as the earlies. Their first are	
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes to
,	• •	Matrix	ed by the governing authority. This list ma	ay include analytes to
the agency does not of	fer certification.	•	, , ,	ay include analytes to

Method Summary

Client: WSP USA Inc.

Project/Site: PLU 30 BD Fed 126H Task04.02

Job ID: 890-1757-1

SDG: 31403236.029

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 30 BD Fed 126H Task04.02

Job ID: 890-1757-1

SDG: 31403236.029

890-1757-1 SS01 Solid 12/23/21 11:25 12/27/21 11:54 0.5 890-1757-2 SS02 Solid 12/23/21 11:30 12/27/21 11:54 0.5	Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1757-2 SS02 Solid 12/23/21 11:30 12/27/21 11:54 0.5	890-1757-1	SS01	Solid	12/23/21 11:25	12/27/21 11:54	0.5
	890-1757-2	SS02	Solid	12/23/21 11:30	12/27/21 11:54	0.5

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City, State ZIP:

Midland, TX 79705 3300 North A Street

Carlsbad, NM 88220 3104 E Green Street

Reporting:Level II Level III PST/UST

PRRP Level IV Other:

State of Project:

Address:

Company Name: WSP	Project Manager			×	3
WSP	Benjumin Bellil			XIIZCO	
Company Name	Bill 16: (if different) Kyle Litie!	Hobbs, NM (575-392-7550) Phoenix, AZ (480-	Midland,TX (432-704-5440) EL	Houston,TX (281) 240-4200 Dalk	C
XTO Energy	Kule Litrell	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000	Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	Chain of Custody
Program: UST/I		3-620-2000)			
ST PRP Brownfiel	Work Order Comments	www.xenco.com			Work Order No:
Program: UST/PST PRP Brownfields RRC Superfund	nments	Page I of	_		

Finder Name: Continue Color Col	API 1757 Chain of Custody TAT Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Mn Mo Ni Se Ag TI U 1631/24 Cors. It assigns standard terms and conditions sees are due to circumstances beyond the control II be enforced unless previously negotiated. Received by: (Signature)
ANALTYS REQUEST BTEX (EPA 300.0) 890-1757 Chain of Cu X X X X X X X X X X X X X X X X X X X	1757 Chain of Custody 1757 Chain of Custody
	se Ag SiO2 Na 1631 1631

Login Sample Receipt Checklist

Job Number: 890-1757-1

SDG Number: 31403236.029

Login Number: 1757 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Olivas, Nathaniel

<6mm (1/4").

Client: WSP USA Inc.

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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1757-1 SDG Number: 31403236.029

Login Number: 1757 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 12/28/21 10:39 AM

Creator:	Rodriguez,	Leticia
----------	------------	---------

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1863-1

Laboratory Sample Delivery Group: 31403236.029 Task 04.02

Client Project/Site: PLU 30 BD FED 126H

For:

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

Attn: Benjamin Belill

MRAMER

Authorized for release by: 1/28/2022 1:28:25 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 3/21/2022 10:17:09 AM

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 30 BD FED 126H Laboratory Job ID: 890-1863-1 SDG: 31403236.029 Task 04.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1863-1 Project/Site: PLU 30 BD FED 126H

SDG: 31403236.029 Task 04.02

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

MDL Method Detection Limit 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 Positive / Present POS **PQL Practical Quantitation Limit**

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: PLU 30 BD FED 126H

SDG: 31403236.029 Task 04.02

Job ID: 890-1863-1

Job ID: 890-1863-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1863-1

Receipt

The samples were received on 1/24/2022 2:04 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

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: PH01B (890-1863-3) at 20.0. Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-17749/2-A), (LCSD 880-17749/3-A) and (890-1863-A-1-E MS). Evidence of matrix interferences is not obvious.

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.

Lab Sample ID: 890-1863-1

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-1863-1

Project/Site: PLU 20 PD EED 126H

SDC: 24402236 020 Took 04 02

Project/Site: PLU 30 BD FED 126H SDG: 31403236.029 Task 04.02

Client Sample ID: PH01
Date Collected: 01/24/22 10:00
Date Received: 01/24/22 14:04

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/25/22 10:56	01/25/22 22:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/22 10:56	01/25/22 22:14	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/25/22 10:56	01/25/22 22:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/25/22 10:56	01/25/22 22:14	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/25/22 10:56	01/25/22 22:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/25/22 10:56	01/25/22 22:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			01/25/22 10:56	01/25/22 22:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/25/22 10:56	01/25/22 22:14	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/28/22 14:15	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	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	<49.9	U	49.9	mg/Kg		01/26/22 08:19	01/26/22 12:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/26/22 08:19	01/26/22 12:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/26/22 08:19	01/26/22 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			70 - 130			01/26/22 08:19	01/26/22 12:17	
1-Chlorooctane	91							1
1-Chlorooctane o-Terphenyl	100		70 - 130			01/26/22 08:19	01/26/22 12:17	•
o-Terphenyl	100	Soluble	70 - 130			01/26/22 08:19	01/26/22 12:17	1 1
	100 omatography -	Soluble Qualifier	70 ₋ 130	Unit	<u>D</u>	01/26/22 08:19 Prepared	01/26/22 12:17 Analyzed	-

Client Sample ID: PH01A Lab Sample ID: 890-1863-2

Date Collected: 01/24/22 10:02 Date Received: 01/24/22 14:04

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/25/22 10:56	01/25/22 22:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/22 10:56	01/25/22 22:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/25/22 10:56	01/25/22 22:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/25/22 10:56	01/25/22 22:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/25/22 10:56	01/25/22 22:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/25/22 10:56	01/25/22 22:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/25/22 10:56	01/25/22 22:34	1

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Matrix: Solid

2

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Client: WSP USA Inc.

Job ID: 890-1863-1 Project/Site: PLU 30 BD FED 126H

SDG: 31403236.029 Task 04.02 Lab Sample ID: 890-1863-2

Client Sample ID: PH01A

Date Collected: 01/24/22 10:02 Date Received: 01/24/22 14:04

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	01/25/22 10:56	01/25/22 22:34	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/28/22 14:15	1

П			
	Method: 8015 NM - Diesel Range Organics (DRO) (CC	
ı	Welliou. 00 13 NW - Diesel Kalige Organics (DRO)	901	

Analyte	Resul	t Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	102		49.9	mg/Kg			01/27/22 16:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/26/22 08:19	01/26/22 16:19	1
Diesel Range Organics (Over C10-C28)	102		49.9	mg/Kg		01/26/22 08:19	01/26/22 16:19	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/26/22 08:19	01/26/22 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surroyate	Mecovery Qualifier	Liiiilo	riepaieu	Allalyzeu	DII Fac
1-Chlorooctane	83	70 - 130	01/26/22 08:19	01/26/22 16:19	1
o-Terphenyl	86	70 - 130	01/26/22 08:19	01/26/22 16:19	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	608	5.00	mg/Kg			01/27/22 21:22	1

Client Sample ID: PH01B Lab Sample ID: 890-1863-3 **Matrix: Solid**

Date Collected: 01/24/22 10:05 Date Received: 01/24/22 14:04

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0400	U	0.0400	mg/Kg		01/25/22 10:56	01/25/22 22:55	20
Toluene	<0.0400	U	0.0400	mg/Kg		01/25/22 10:56	01/25/22 22:55	20
Ethylbenzene	<0.0400	U	0.0400	mg/Kg		01/25/22 10:56	01/25/22 22:55	20
m-Xylene & p-Xylene	<0.0800	U	0.0800	mg/Kg		01/25/22 10:56	01/25/22 22:55	20
o-Xylene	<0.0400	U	0.0400	mg/Kg		01/25/22 10:56	01/25/22 22:55	20
Xylenes, Total	<0.0800	U	0.0800	mg/Kg		01/25/22 10:56	01/25/22 22:55	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			01/25/22 10:56	01/25/22 22:55	20
1,4-Difluorobenzene (Surr)	98		70 - 130			01/25/22 10:56	01/25/22 22:55	20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0800	U	0.0800	mg/Kg			01/28/22 14:15	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.7	50.0	mg/Kg			01/27/22 16:17	1

Lab Sample ID: 890-1863-3

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1863-1

 Project/Site: PLU 30 BD FED 126H
 SDG: 31403236.029 Task 04.02

Client Sample ID: PH01B

Date Collected: 01/24/22 10:05 Date Received: 01/24/22 14:04

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/26/22 08:19	01/26/22 16:41	1
(GRO)-C6-C10								
Diesel Range Organics (Over	79.7		50.0	mg/Kg		01/26/22 08:19	01/26/22 16:41	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/26/22 08:19	01/26/22 16:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			01/26/22 08:19	01/26/22 16:41	1
o-Terphenyl	85		70 - 130			01/26/22 08:19	01/26/22 16:41	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		4.95	mg/Kg			01/27/22 21:30	1

1

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14

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1863-1

 Project/Site: PLU 30 BD FED 126H
 SDG: 31403236.029 Task 04.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	· ·
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1862-A-6-C MSD	Matrix Spike Duplicate	124	114	
890-1862-A-6-E MS	Matrix Spike	109	109	
890-1863-1	PH01	106	100	
890-1863-2	PH01A	113	103	
890-1863-3	PH01B	118	98	
LCS 880-17561/1-B	Lab Control Sample	106	106	
LCSD 880-17561/2-B	Lab Control Sample Dup	108	103	
MB 880-17651/5-A	Method Blank	104	90	
MB 880-17652/41	Method Blank	107	101	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (Surr)			-
DFBZ = 1,4-Difluorobenz	ene (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)	
00-1863-1	PH01	91	100	
90-1863-1 MS	PH01	73	69 S1-	
90-1863-1 MSD	PH01	77	73	
90-1863-2	PH01A	83	86	
0-1863-3	PH01B	84	85	
CS 880-17749/2-A	Lab Control Sample	131 S1+	125	
SD 880-17749/3-A	Lab Control Sample Dup	137 S1+	140 S1+	
B 880-17749/1-A	Method Blank	106	119	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1863-1 Project/Site: PLU 30 BD FED 126H SDG: 31403236.029 Task 04.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-17561/1-B

Matrix: Solid

Analysis Batch: 17652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 17561

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09177		mg/Kg		92	70 - 130	
Toluene	0.100	0.08763		mg/Kg		88	70 - 130	
Ethylbenzene	0.100	0.08369		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1773		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08641		mg/Kg		86	70 - 130	

LCS LCS %Recovery

Lab Sample ID: LCSD 880-17561/2-B

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17561

Matrix: Solid Analysis Batch: 17652 LCSD LCSD

%Rec. RPD Spike Added Result Qualifier Limits Limit Analyte Unit %Rec RPD Benzene 0.100 0.09621 mg/Kg 96 70 - 130 5 35 Toluene 0.100 0.08841 mg/Kg 88 70 - 130 35 0.09085 Ethylbenzene 0.100 mg/Kg 91 70 - 130 8 35 0.200 0.1901 95 m-Xylene & p-Xylene mg/Kg 70 - 130 35 0.100 0.09595 o-Xylene mg/Kg 70 - 130 10 35

LCSD LCSD

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-1862-A-6-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 17652

Prep Type: Total/NA

Prep Batch: 17561

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.08479		mg/Kg		85	70 - 130	2	35
Toluene	<0.00202	U	0.100	0.07020		mg/Kg		70	70 - 130	5	35
Ethylbenzene	<0.00202	U	0.100	0.07219		mg/Kg		72	70 - 130	2	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1481		mg/Kg		74	70 - 130	3	35
o-Xylene	<0.00202	U	0.100	0.07800		mg/Kg		78	70 - 130	2	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

Lab Sample ID: 890-1862-A-6-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 17652									Batch: 17561	
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.08307		mg/Kg		83	70 - 130	
Toluene	<0.00202	U	0.0996	0.07382		mg/Kg		74	70 - 130	
Ethylbenzene	< 0.00202	U	0.0996	0.07358		ma/Ka		74	70 ₋ 130	

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Prep Type: Total/NA

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Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1863-1 Project/Site: PLU 30 BD FED 126H SDG: 31403236.029 Task 04.02

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

<0.00202 U

Lab Sample ID: 890-1862-A-6-E MS

Matrix: Solid

Analysis Batch: 17652									Prep	Batch: 17561
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1530		mg/Kg		77	70 - 130	

0.07970

mg/Kg

0.0996

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 109 109 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: MB 880-17651/5-A Client Sample ID: Method Blank

Ma

o-Xylene

An

latrix: Solid		Prep Type: Total/NA
nalysis Batch: 17652		Prep Batch: 17651
	MB MB	

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 mg/Kg 01/25/22 07:13 01/25/22 10:38 Toluene <0.00200 U 0.00200 mg/Kg 01/25/22 07:13 01/25/22 10:38 Ethylbenzene <0.00200 U 0.00200 mg/Kg 01/25/22 07:13 01/25/22 10:38 m-Xylene & p-Xylene 01/25/22 07:13 01/25/22 10:38 <0.00400 U 0.00400 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 01/25/22 07:13 01/25/22 10:38 <0.00400 U 01/25/22 07:13 01/25/22 10:38 Xylenes, Total 0.00400 mg/Kg

MB MB Surrogate Qualifier Limits Prepared Analyzed Dil Fac %Recovery 70 - 130 01/25/22 07:13 4-Bromofluorobenzene (Surr) 104 01/25/22 10:38 70 - 130 01/25/22 07:13 1,4-Difluorobenzene (Surr) 90 01/25/22 10:38

Lab Sample ID: MB 880-17652/41 Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 17652

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			01/25/22 21:32	1
Toluene	<0.00200	U	0.00200	mg/Kg			01/25/22 21:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			01/25/22 21:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			01/25/22 21:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			01/25/22 21:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			01/25/22 21:32	1
	MB	MB						

	IVID	IVID				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130		01/25/22 21:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130		01/25/22 21:32	1

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

Lab Sample ID: MB 880-17749/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 17755

•	МВ	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/26/22 08:19	01/26/22 11:10	1

(GRO)-C6-C10

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Prep Type: Total/NA

Prep Batch: 17749

Client: WSP USA Inc.

o-Terphenyl

Job ID: 890-1863-1 Project/Site: PLU 30 BD FED 126H

SDG: 31403236.029 Task 04.02

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

Lab Sample ID: MB 880-17749/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 17749 **Analysis Batch: 17755**

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/26/22 08:19	01/26/22 11:10	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/26/22 08:19	01/26/22 11:10	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			01/26/22 08:19	01/26/22 11:10	1
o-Terphenyl	119		70 - 130			01/26/22 08:19	01/26/22 11:10	1

Lab Sample ID: LCS 880-17749/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Prep Batch: 17749 Analysis Batch: 17755 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1093 109 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1153 mg/Kg 115 70 - 130 C10-C28) LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 131 S1+ 70 - 130

Lab Sample ID: LCSD 880-17749/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

70 - 130

Analysis Batch: 17755 Prep Batch: 17749

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1100		mg/Kg		110	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1225		mg/Kg		122	70 - 130	6	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	140	S1+	70 - 130

125

Lab Sample ID: 890-1863-1 MS Client Sample ID: PH01 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 17755 Prep Batch: 17749

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	1106		mg/Kg		111	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	964.5		mg/Kg		95	70 - 130	
C10 C28)										

Diesel Range Organics (Over	<49.9	U	997	964.5	mg/Kg	95	70 - 130	
C10-C28)								
	MS	MS						
Surrogate	%Recovery	Qualifier	Limits					
1-Chlorooctane	73		70 - 130					
o-Terphenyl	69	S1-	70 - 130					

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1863-1 Project/Site: PLU 30 BD FED 126H SDG: 31403236.029 Task 04.02

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

Lab Sample ID: 890-1863-1 MSD Client Sample ID: PH01 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 17755 Prep Batch: 17749

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	996	1144		mg/Kg		115	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	996	1028		mg/Kg		101	70 - 130	6	20
C10-C28)											

	INISD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	73		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17707/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 17737

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/27/22 17:51

Lab Sample ID: LCS 880-17707/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 17737

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	274.3		mg/Kg		110	90 - 110	

Lab Sample ID: LCSD 880-17707/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 17737

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	273.1		mg/Kg		109	90 - 110	0	20	

Lab Sample ID: 890-1857-A-2-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 17737

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	17.4		250	284.4		ma/Ka	_	107	90 110	

Lab Sample ID: 890-1857-A-2-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 17737

Allalysis Datcil. 17737											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	17.4		250	285.1		mg/Kg		107	90 - 110	0	20

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Prep Type: Soluble

QC Association Summary

Job ID: 890-1863-1 Client: WSP USA Inc. Project/Site: PLU 30 BD FED 126H SDG: 31403236.029 Task 04.02

GC VOA

Prep Batch: 17561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1863-1	PH01	Total/NA	Solid	5035	_
890-1863-2	PH01A	Total/NA	Solid	5035	
890-1863-3	PH01B	Total/NA	Solid	5035	
LCS 880-17561/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17561/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1862-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1862-A-6-E MS	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 17651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17651/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 17652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1863-1	PH01	Total/NA	Solid	8021B	17561
890-1863-2	PH01A	Total/NA	Solid	8021B	17561
890-1863-3	PH01B	Total/NA	Solid	8021B	17561
MB 880-17651/5-A	Method Blank	Total/NA	Solid	8021B	17651
MB 880-17652/41	Method Blank	Total/NA	Solid	8021B	
LCS 880-17561/1-B	Lab Control Sample	Total/NA	Solid	8021B	17561
LCSD 880-17561/2-B	Lab Control Sample Dup	Total/NA	Solid	8021B	17561
890-1862-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17561
890-1862-A-6-E MS	Matrix Spike	Total/NA	Solid	8021B	17561

Analysis Batch: 18058

Lab Sample ID 890-1863-1	Client Sample ID PH01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-1863-2	PH01A	Total/NA	Solid	Total BTEX	
890-1863-3	PH01B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 17749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1863-1	PH01	Total/NA	Solid	8015NM Prep	
890-1863-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1863-3	PH01B	Total/NA	Solid	8015NM Prep	
MB 880-17749/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17749/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17749/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1863-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-1863-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1863-1	PH01	Total/NA	Solid	8015B NM	17749
890-1863-2	PH01A	Total/NA	Solid	8015B NM	17749
890-1863-3	PH01B	Total/NA	Solid	8015B NM	17749
MB 880-17749/1-A	Method Blank	Total/NA	Solid	8015B NM	17749
LCS 880-17749/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17749
LCSD 880-17749/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17749

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1863-1

 Project/Site: PLU 30 BD FED 126H
 SDG: 31403236.029 Task 04.02

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GC Semi VOA (Continued)

Analysis Batch: 17755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1863-1 MS	PH01	Total/NA	Solid	8015B NM	17749
890-1863-1 MSD	PH01	Total/NA	Solid	8015B NM	17749

Analysis Batch: 17951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1863-1	PH01	Total/NA	Solid	8015 NM	
890-1863-2	PH01A	Total/NA	Solid	8015 NM	
890-1863-3	PH01B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 17707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1863-1	PH01	Soluble	Solid	DI Leach	
890-1863-2	PH01A	Soluble	Solid	DI Leach	
890-1863-3	PH01B	Soluble	Solid	DI Leach	
MB 880-17707/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17707/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17707/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1857-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1857-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 17737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1863-1	PH01	Soluble	Solid	300.0	17707
890-1863-2	PH01A	Soluble	Solid	300.0	17707
890-1863-3	PH01B	Soluble	Solid	300.0	17707
MB 880-17707/1-A	Method Blank	Soluble	Solid	300.0	17707
LCS 880-17707/2-A	Lab Control Sample	Soluble	Solid	300.0	17707
LCSD 880-17707/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17707
890-1857-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	17707
890-1857-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17707

Client: WSP USA Inc.

Job ID: 890-1863-1 Project/Site: PLU 30 BD FED 126H SDG: 31403236.029 Task 04.02

Client Sample ID: PH01

Lab Sample ID: 890-1863-1

Matrix: Solid

Date Collected: 01/24/22 10:00 Date Received: 01/24/22 14:04

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17561	01/25/22 10:56	KL	XEN MID
Total/NA	Analysis	8021B		1	17652	01/25/22 22:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17749	01/26/22 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17755	01/26/22 12:17	AJ	XEN MID
Soluble	Leach	DI Leach			17707	01/25/22 12:33	СН	XEN MID
Soluble	Analysis	300.0		5	17737	01/27/22 21:15	CH	XEN MID

Client Sample ID: PH01A

Date Collected: 01/24/22 10:02

Lab Sample ID: 890-1863-2

Matrix: Solid

Date Received: 01/24/22 14:04

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17561	01/25/22 10:56	KL	XEN MID
Total/NA	Analysis	8021B		1	17652	01/25/22 22:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17749	01/26/22 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17755	01/26/22 16:19	AJ	XEN MID
Soluble	Leach	DI Leach			17707	01/25/22 12:33	СН	XEN MID
Soluble	Analysis	300.0		1	17737	01/27/22 21:22	CH	XEN MID

Client Sample ID: PH01B

Date Collected: 01/24/22 10:05 Date Received: 01/24/22 14:04 Lab Sample ID: 890-1863-3

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17561	01/25/22 10:56	KL	XEN MID
Total/NA	Analysis	8021B		20	17652	01/25/22 22:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17749	01/26/22 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17755	01/26/22 16:41	AJ	XEN MID
Soluble	Leach	DI Leach			17707	01/25/22 12:33	CH	XEN MID
Soluble	Analysis	300.0		1	17737	01/27/22 21:30	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Job ID: 890-1863-1 Client: WSP USA Inc. Project/Site: PLU 30 BD FED 126H

SDG: 31403236.029 Task 04.02

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-22	
		ELAP	T104704400-21-22		
The following analytes	are included in this report, bu	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
the agency does not of	fer certification.				
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte		
9 ,		Matrix Solid	Analyte Total TPH		

Method Summary

Client: WSP USA Inc.

Project/Site: PLU 30 BD FED 126H

Job ID: 890-1863-1

SDG: 31403236.029 Task 04.02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 30 BD FED 126H

Job ID: 890-1863-1

SDG: 31403236.029 Task 04.02

ab Sample ID Client Sample ID Matrix Collected Received	Depth
90-1863-1 PH01 Solid 01/24/22 10:00 01/24/22 14	04 1
90-1863-2 PH01A Solid 01/24/22 10:02 01/24/22 14)4 2
90-1863-3 PH01B Solid 01/24/22 10:05 01/24/22 14)4 4

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SAMPLE RECEIPT of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. 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 Relinquished by: (Signature) Sample Custody Seals: Sampler's Name: **Project Location** Project Manager: Project Number: Company Name Cooler Custody Seals: Total 200.7 / 6010 City, State ZIP: Circle Method(s) and Metal(s) to be analyzed Project Name: Sample Identification Temperature (°C): Received Intact: Address: Phone: PO #: 200.8 / 6020: Yes Yes No Temp Blank: No Matrix N/A N/A Sampled Received by: (Signature) Yes No Date Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Correction Factor: Total Containers: Midland.TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock.TX (806) 794-1296 Craslbad, NM (432) 704-5440 Thermometer ID TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Sampled 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Time Wet Ice: Email: Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Due Date: Rush: Routine Turn Around Yes Depth Bill to: (if different) Company Name: City, State ZIP: No Address: Pres. Number of Containers Chain of Custody Date/Time Cd Ca Cr Co Cu Fe Pb Mg Relinquished by: (Signature) **ANALYSIS REQUEST** 890-1863 Chain of Custody Deliverables: EDD Reporting:Level II Level III PST/UST TRRP Level IV Program: UST/PST PRP Brownfields RRC Superfund Mn Mo Ni K Se Received by: (Signature) Work Order No: Ag SiO2 Na Sr Tl Sn U V Zn ADaPT 1631 / 245.1 / 7470 / 7471 : Hg Zn Acetate+ NaOH: Zn HNO3: HN None: NO TAT starts the day recevied by the lab, if NaOH: Na HCL: HC H2S04: H2 MeOH: Me Page Preservative Codes Sample Comments received by 4:00pm Date/Time 으

Page 19 of 23

Lab

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	1501 1994	Complete Sy. (Signature)	Relinguished by: (Signa	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Asnoo, its arrivates and supports 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$7 for each sample submitted to Xenco, but not analyzed. These terms will be entited to the control of Xenco.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed										Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	PO#:	Sampler's Name:	52	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:	LABO
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Eurofins Carlsbad

1089 N Canal St

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Chain of Custody Record

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Environment Testing

State, Zip: TX 79701 Carlsbad, NM 88220 Phone 575-988-3199 Fax 575-988-3199 Project Name. PLU 30 BD FED 126H Midland Eurofins Environment Testing South Centr PH01A (890-1863-2) PH01 (890-1863-1) Sample Identification - Client ID (Lab ID) 1211 W Florida Ave Shipping/Receiving Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central 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 isted above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC. PH01B (890-1863-3) 132-704-5440(Tel) Deliverable Requested I II III IV Other (specify) Possible Hazard Identification Custody Seals Intact.

A Yes A No elinquished by nconfirmed ient Information npty Kit Relinquished by (Sub Contract Lab) Custody Seal S Sampler Phone Date/Time Primary Deliverable Rank 39000004 PO# Due Date Requested AT Requested (days): Sample Date 1/24/22 1/24/22 1/24/22 Date Mountain 10 05 Mountain 10 02 Mountain Sample 10 00 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Kramer Jessica jessica kramer@eurofinset.com I Ime: Accreditations Required (See note)
NELAP - Louisiana, NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks. Received by: Received by: Received by: 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH \times × × × × × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride × × × × × × 8021B/6035FP_Calc (MOD) BTEX Analysis Requested × × × Total_BTEX_GCV New Mexico State of Origin Carrier Tracking No(s) Method of Shipment: D Date/Time Date/Time 6 Total Number of containers A HCL
B NaOH
C Zn Acetate
D-Nitric Acid
F-MeOH
G Amchlor
H-Ascorbic Acid
I loe
J DI Water
K EDTA
L EDA COC No: 890-598 1 Preservation Codes Page 1 of 1 390-1863-1 Special Instructions/Note: 0 8 Q K S F ⊃ > ≥ N TOZZ Company M Hexane
N None
N None
N Na204S
Na204S
Na2803
R Na28203
R Na28203
S H2804
TSP Dodecahydrate Acetone MCAA other (specify) pH 4-5 けのの

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1863-1

SDG Number: 31403236.029 Task 04.02

Login Number: 1863 List Source: Eurofins Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

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	

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<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1863-1

SDG Number: 31403236.029 Task 04.02

List Source: Eurofins Midland

Login Number: 1863 List Number: 2 List Creation: 01/25/22 11:57 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1898-1

Laboratory Sample Delivery Group: 31403236.029 task 04.02

Client Project/Site: PLU 30 BD Fed 126h

For:

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

Attn: Tacoma Morrissey

JURAMER

Authorized for release by: 2/4/2022 1:28:03 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

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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 30 BD Fed 126h Laboratory Job ID: 890-1898-1 SDG: 31403236.029 task 04.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1898-1 Project/Site: PLU 30 BD Fed 126h SDG: 31403236.029 task 04.02

Qualifiers

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G	L	v	u	А

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

GC Semi VOA

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

HPI C/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

Not Calculated NC

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

Negative / Absent NEG POS Positive / Present Practical Quantitation Limit **PQL PRES** Presumptive

QC **Quality Control** RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: PLU 30 BD Fed 126h

SDG: 31403236.029 task 04.02

Job ID: 890-1898-1

Job ID: 890-1898-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1898-1

Receipt

The samples were received on 2/1/2022 10:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18258 and analytical batch 880-18331 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-10694-A-41-F MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for preparation batch 880-18356 and analytical batch 880-18411 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.SS03 (890-1898-1), SS04 (890-1898-2), SS05 (890-1898-3), SS06 (890-1898-4) and (890-1898-A-1-E MS)

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

Date Received: 02/01/22 10:37

Job ID: 890-1898-1 Project/Site: PLU 30 BD Fed 126h SDG: 31403236.029 task 04.02

Lab Sample ID: 890-1898-1

Client Sample ID: SS03 Date Collected: 01/31/22 12:15

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 14:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 14:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 14:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/02/22 11:00	02/02/22 14:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 14:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/02/22 11:00	02/02/22 14:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			02/02/22 11:00	02/02/22 14:06	1
1,4-Difluorobenzene (Surr)	75		70 - 130			02/02/22 11:00	02/02/22 14:06	1
Method: Total BTEX - Total BTE)	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/04/22 14:16	1
-								
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)						
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/03/22 11:27	Dil Fac
Analyte	Result < 50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			02/03/22 11:27	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	02/03/22 11:27 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (DI Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/02/22 12:13	02/03/22 11:27 Analyzed 02/02/22 13:58	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/02/22 12:13 02/02/22 12:13	02/03/22 11:27 Analyzed 02/02/22 13:58 02/02/22 13:58	1 Dil Fac 1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/02/22 12:13 02/02/22 12:13	02/03/22 11:27 Analyzed 02/02/22 13:58 02/02/22 13:58	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/02/22 12:13 02/02/22 12:13 02/02/22 12:13 Prepared	02/03/22 11:27 Analyzed 02/02/22 13:58 02/02/22 13:58 02/02/22 13:58 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/02/22 12:13 02/02/22 12:13 02/02/22 12:13 Prepared 02/02/22 12:13	02/03/22 11:27 Analyzed 02/02/22 13:58 02/02/22 13:58 Analyzed 02/02/22 13:58	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/02/22 12:13 02/02/22 12:13 02/02/22 12:13 Prepared 02/02/22 12:13	02/03/22 11:27 Analyzed 02/02/22 13:58 02/02/22 13:58 Analyzed 02/02/22 13:58	1 Dil Fac 1 Dil Fac 1

Client Sample ID: SS04 Lab Sample ID: 890-1898-2

Date Collected: 01/31/22 12:30 Date Received: 02/01/22 10:37

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/02/22 11:00	02/02/22 14:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/02/22 11:00	02/02/22 14:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/02/22 11:00	02/02/22 14:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/02/22 11:00	02/02/22 14:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/02/22 11:00	02/02/22 14:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/02/22 11:00	02/02/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			02/02/22 11:00	02/02/22 14:26	1

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Matrix: Solid

Job ID: 890-1898-1 Project/Site: PLU 30 BD Fed 126h SDG: 31403236.029 task 04.02

Lab Sample ID: 890-1898-2

Client Sample ID: SS04

Date Collected: 01/31/22 12:30 Date Received: 02/01/22 10:37

Sample Depth: 0.5

Matrix: Solid

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

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 70 - 130 02/02/22 11:00 1,4-Difluorobenzene (Surr) 84 02/02/22 14:26

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 02/04/22 14:16 mg/Kg

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

RL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 49.9 mg/Kg 02/03/22 11:27

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <49.9 U 02/02/22 12:13 02/02/22 14:19 Gasoline Range Organics 49.9 mg/Kg (GRO)-C6-C10 <49.9 U 49.9 mg/Kg 02/02/22 12:13 02/02/22 14:19 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 02/02/22 12:13 02/02/22 14:19

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 84 70 - 130 02/02/22 12:13 02/02/22 14:19 02/02/22 14:19 o-Terphenyl 81 70 - 130 02/02/22 12:13

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.99 02/02/22 21:18 Chloride 50.0 mg/Kg

Lab Sample ID: 890-1898-3 Client Sample ID: SS05

Date Collected: 01/31/22 12:45 Date Received: 02/01/22 10:37

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 02/02/22 11:00 02/02/22 14:46 Toluene <0.00200 U 0.00200 02/02/22 11:00 02/02/22 14:46 mg/Kg Ethylbenzene <0.00200 U 0.00200 02/02/22 11:00 02/02/22 14:46 mg/Kg 0.00399 02/02/22 11:00 02/02/22 14:46 m-Xylene & p-Xylene <0.00399 U mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 02/02/22 11:00 02/02/22 14:46 Xylenes, Total <0.00399 U 0.00399 mg/Kg 02/02/22 11:00 02/02/22 14:46 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed

119 70 - 130 02/02/22 11:00 4-Bromofluorobenzene (Surr) 02/02/22 14:46 1,4-Difluorobenzene (Surr) 132 S1+ 70 - 130 02/02/22 11:00 02/02/22 14:46

Method: Total BTEX - Total BTEX Calculation

Analyte RL D Result Qualifier Unit Prepared Analyzed Dil Fac Total BTEX <0.00399 0.00399 02/04/22 14:16 mg/Kg

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 49.9 mg/Kg 02/03/22 11:27

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Matrix: Solid

Job ID: 890-1898-1 Project/Site: PLU 30 BD Fed 126h SDG: 31403236.029 task 04.02

Client Sample ID: SS05

Date Collected: 01/31/22 12:45

Date Received: 02/01/22 10:37

Lab Sample ID: 890-1898-3

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/02/22 12:13	02/02/22 14:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/02/22 12:13	02/02/22 14:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/02/22 12:13	02/02/22 14:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			02/02/22 12:13	02/02/22 14:40	1
o-Terphenyl	78		70 - 130			02/02/22 12:13	02/02/22 14:40	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1898-4 **Client Sample ID: SS06 Matrix: Solid**

Date Collected: 01/31/22 13:00

Date Received: 02/01/22 10:37

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 15:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 15:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 15:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/22 11:00	02/02/22 15:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 15:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/02/22 11:00	02/02/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			02/02/22 11:00	02/02/22 15:07	1
1,4-Difluorobenzene (Surr)	113		70 - 130			02/02/22 11:00	02/02/22 15:07	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/04/22 14:16	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/22 11:27	1
Method: 8015B NM - Diesel Rang	e 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		02/02/22 12:13	02/02/22 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/02/22 12:13	02/02/22 15:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/02/22 12:13	02/02/22 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/02/22 12:13	02/02/22 15:02	1
o-Terphenyl	88		70 - 130			02/02/22 12:13	02/02/22 15:02	1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1898-1

 Project/Site: PLU 30 BD Fed 126h
 SDG: 31403236.029 task 04.02

Client Sample ID: SS06 Lab Sample ID: 890-1898-4

Date Collected: 01/31/22 13:00 Matrix: Solid
Date Received: 02/01/22 10:37

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.1		4.95	mg/Kg			02/02/22 21:30	1

5

6

8

10

12

13

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1898-1 Project/Site: PLU 30 BD Fed 126h SDG: 31403236.029 task 04.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1892-A-1-A MS	Matrix Spike	106	85	
390-1892-A-1-B MSD	Matrix Spike Duplicate	99	101	
390-1898-1	SS03	77	75	
390-1898-2	SS04	90	84	
390-1898-3	SS05	119	132 S1+	
390-1898-4	SS06	110	113	
CS 880-18258/1-A	Lab Control Sample	90	94	
_CSD 880-18258/2-A	Lab Control Sample Dup	101	101	
MB 880-18258/5-A	Method Blank	97	79	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-10694-A-41-E MS	Matrix Spike	74	71	
880-10694-A-41-F MSD	Matrix Spike Duplicate	74	68 S1-	
890-1898-1	SS03	79	80	
890-1898-2	SS04	84	81	
890-1898-3	SS05	82	78	
890-1898-4	SS06	89	88	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-18166/2-A	Lab Control Sample	71	76	
LCSD 880-18166/3-A	Lab Control Sample Dup	81	85	
MB 880-18166/1-A	Method Blank	84	83	
Surrogate Legend				
1CO = 1-Chlorooctane				

Client: WSP USA Inc. Project/Site: PLU 30 BD Fed 126h

Job ID: 890-1898-1

SDG: 31403236.029 task 04.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18258/5-A

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18258

MB	MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/02/22 08:00	02/02/22 11:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/02/22 08:00	02/02/22 11:12	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/02/22 08:00	02/02/22 11:12	1

Lab Sample ID: LCS 880-18258/1-A

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18258

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08040		mg/Kg		80	70 - 130	
Toluene	0.100	0.07602		mg/Kg		76	70 - 130	
Ethylbenzene	0.100	0.07693		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1446		mg/Kg		72	70 - 130	
o-Xylene	0.100	0.07947		mg/Kg		79	70 - 130	

LCS LCS

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-18258/2-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 18331

Client Sample ID: Lab Control Sample Dup	Client Sam	ple ID: Lab	Control Sam	ple Dup
--	------------	-------------	--------------------	---------

70 - 130

70 - 130

84

Prep Type: Total/NA

Prep Batch: 18258

15

35

35

RPD LCSD LCSD Spike %Rec. Added Result Qualifier Unit %Rec Limits Limit 0.100 0.08317 mg/Kg 83 70 - 130 3 35 0.100 0.07989 mg/Kg 80 70 - 130 5 35 0.100 0.08203 mg/Kg 82 70 - 130 6 35

mg/Kg

mg/Kg

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-1892-A-1-A MS

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18258

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00201 U F1 0.101 0.05707 F1 57 70 - 130 Benzene mg/Kg Toluene <0.00201 UF1 0.101 0.06223 F1 mg/Kg 62 70 - 130

0.200

0.100

0.1684

0.08378

Job ID: 890-1898-1 Project/Site: PLU 30 BD Fed 126h

SDG: 31403236.029 task 04.02

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

Lab Sample ID: 890-1892-A-1-A MS

Lab Sample ID: 890-1892-A-1-B MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 18331

Analysis Batch: 18331

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18258

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1	0.101	0.06630	F1	mg/Kg		66	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1286	F1	mg/Kg		64	70 - 130	
o-Xylene	<0.00201	U F1	0.101	0.06102	F1	mg/Kg		61	70 _ 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18258

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0998	0.07087		mg/Kg		71	70 - 130	22	35
Toluene	<0.00201	U F1	0.0998	0.06713	F1	mg/Kg		67	70 - 130	8	35
Ethylbenzene	<0.00201	U F1	0.0998	0.06713	F1	mg/Kg		67	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1374	F1	mg/Kg		69	70 - 130	7	35
o-Xylene	<0.00201	U F1	0.0998	0.06773	F1	mg/Kg		68	70 - 130	10	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-18166/1-A

Matrix: Solid

Analysis Batch: 18343

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18166

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 12:13	02/02/22 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 12:13	02/02/22 11:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 12:13	02/02/22 11:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	01/31/22 12:13	02/02/22 11:41	1
o-Terphenyl	83		70 - 130	01/31/22 12:13	02/02/22 11:41	1

Lab Sample ID: LCS 880-18166/2-A

Matrix: Solid

Analysis Batch: 18343

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18166

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	698.7		mg/Kg		70	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	887.6		mg/Kg		89	70 - 130	
C10-C28)								

Project/Site: PLU 30 BD Fed 126h

Limits

70 - 130

70 - 130

Job ID: 890-1898-1

SDG: 31403236.029 task 04.02

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

Lab Sample ID: LCS 880-18166/2-A

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Client: WSP USA Inc.

Analysis Batch: 18343

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18166

Lab Sample ID: LCSD 880-18166/3-A

Lab Sample ID: 880-10694-A-41-E MS

Matrix: Solid

Analysis Batch: 18343

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18166

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 709.4 71 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 mg/Kg Diesel Range Organics (Over 1000 929.6 93 70 - 1305 20 C10-C28)

LCSD LCSD

LCS LCS %Recovery Qualifier

71

76

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	85		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18166

Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 999 761.6 mg/Kg 74 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 908.1 mg/Kg 91 70 - 130 C10-C28)

MS MS

Matrix: Solid

Analysis Batch: 18343

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 74 o-Terphenyl 71 70 - 130

Lab Sample ID: 880-10694-A-41-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 18343

Prep Type: Total/NA

Prep Batch: 18166

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	999	793.9		mg/Kg		78	70 - 130	4	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	999	984.5		mg/Kg		99	70 - 130	8	20	
C10 C20)												

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	68	S1-	70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1898-1 Project/Site: PLU 30 BD Fed 126h

SDG: 31403236.029 task 04.02

Client Sample ID: Method Blank

Client Sample ID: SS03

Client Sample ID: SS03

Prep Type: Soluble

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18356/1-A

Matrix: Solid

Analysis Batch: 18411

Prep Type: Soluble мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 02/02/22 20:41

Lab Sample ID: LCS 880-18356/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 18411

Spike LCS LCS %Rec. Added Qualifier Analyte Result Unit D %Rec Limits Chloride 250 260.0 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-18356/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 18411

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 234.1 mg/Kg 90 - 110

Lab Sample ID: 890-1898-1 MS

Matrix: Solid

Analysis Batch: 18411

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 278.8 F1 Chloride 63.1 F1 250 86 90 - 110 mg/Kg

Lab Sample ID: 890-1898-1 MSD

Matrix: Solid

Analysis Batch: 18411

Sample Sample Spike MSD MSD %Rec. RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 63.1 F1 250 305.4 mg/Kg 97 90 - 110 20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1898-1

 Project/Site: PLU 30 BD Fed 126h
 SDG: 31403236.029 task 04.02

GC VOA

Prep Batch: 18258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1898-1	SS03	Total/NA	Solid	5035	
890-1898-2	SS04	Total/NA	Solid	5035	
890-1898-3	SS05	Total/NA	Solid	5035	
890-1898-4	SS06	Total/NA	Solid	5035	
MB 880-18258/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18258/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18258/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1892-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1892-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1898-1	SS03	Total/NA	Solid	8021B	18258
890-1898-2	SS04	Total/NA	Solid	8021B	18258
890-1898-3	SS05	Total/NA	Solid	8021B	18258
890-1898-4	SS06	Total/NA	Solid	8021B	18258
MB 880-18258/5-A	Method Blank	Total/NA	Solid	8021B	18258
LCS 880-18258/1-A	Lab Control Sample	Total/NA	Solid	8021B	18258
LCSD 880-18258/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18258
890-1892-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	18258
890-1892-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18258

Analysis Batch: 18599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	
890-1898-1	SS03	Total/NA	Solid	Total BTEX	
890-1898-2	SS04	Total/NA	Solid	Total BTEX	
890-1898-3	SS05	Total/NA	Solid	Total BTEX	
890-1898-4	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1898-1	SS03	Total/NA	Solid	8015NM Prep	
890-1898-2	SS04	Total/NA	Solid	8015NM Prep	
890-1898-3	SS05	Total/NA	Solid	8015NM Prep	
890-1898-4	SS06	Total/NA	Solid	8015NM Prep	
MB 880-18166/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18166/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10694-A-41-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10694-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1898-1	SS03	Total/NA	Solid	8015B NM	18166
890-1898-2	SS04	Total/NA	Solid	8015B NM	18166
890-1898-3	SS05	Total/NA	Solid	8015B NM	18166
890-1898-4	SS06	Total/NA	Solid	8015B NM	18166
MB 880-18166/1-A	Method Blank	Total/NA	Solid	8015B NM	18166
LCS 880-18166/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18166

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1898-1

 Project/Site: PLU 30 BD Fed 126h
 SDG: 31403236.029 task 04.02

GC Semi VOA (Continued)

Analysis Batch: 18343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-18166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18166
880-10694-A-41-E MS	Matrix Spike	Total/NA	Solid	8015B NM	18166
880-10694-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18166

Analysis Batch: 18476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1898-1	SS03	Total/NA	Solid	8015 NM	
890-1898-2	SS04	Total/NA	Solid	8015 NM	
890-1898-3	SS05	Total/NA	Solid	8015 NM	
890-1898-4	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 18356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1898-1	SS03	Soluble	Solid	DI Leach	
890-1898-2	SS04	Soluble	Solid	DI Leach	
890-1898-3	SS05	Soluble	Solid	DI Leach	
890-1898-4	SS06	Soluble	Solid	DI Leach	
MB 880-18356/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18356/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18356/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1898-1 MS	SS03	Soluble	Solid	DI Leach	
890-1898-1 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 18411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1898-1	SS03	Soluble	Solid	300.0	18356
890-1898-2	SS04	Soluble	Solid	300.0	18356
890-1898-3	SS05	Soluble	Solid	300.0	18356
890-1898-4	SS06	Soluble	Solid	300.0	18356
MB 880-18356/1-A	Method Blank	Soluble	Solid	300.0	18356
LCS 880-18356/2-A	Lab Control Sample	Soluble	Solid	300.0	18356
LCSD 880-18356/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18356
890-1898-1 MS	SS03	Soluble	Solid	300.0	18356
890-1898-1 MSD	SS03	Soluble	Solid	300.0	18356

Project/Site: PLU 30 BD Fed 126h

Date Received: 02/01/22 10:37

Job ID: 890-1898-1

SDG: 31403236.029 task 04.02

Client Sample ID: SS03 Lab Sample ID: 890-1898-1 Date Collected: 01/31/22 12:15

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst 5035 Total/NA Prep 18258 02/02/22 11:00 MR XEN MID 8021B Total/NA Analysis 1 18331 02/02/22 14:06 KLXEN MID Total/NA Analysis Total BTEX 18599 02/04/22 14:16 AJ XEN MID Total/NA 8015 NM XEN MID Analysis 1 18476 02/03/22 11:27 AJ Total/NA 8015NM Prep 18166 02/02/22 12:13 XEN MID Prep DM Total/NA Analysis 8015B NM 18343 02/02/22 13:58 AJXEN MID Soluble DI Leach 18356 02/02/22 11:34 XEN MID Leach CH XEN MID Soluble Analysis 300.0 1 18411 02/02/22 20:59 SC

Client Sample ID: SS04 Lab Sample ID: 890-1898-2

Date Collected: 01/31/22 12:30 **Matrix: Solid**

Date Received: 02/01/22 10:37

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			18258	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	18331	02/02/22 14:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	18476	02/03/22 11:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			18166	02/02/22 12:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	18343	02/02/22 14:19	AJ	XEN MID
Soluble	Leach	DI Leach			18356	02/02/22 11:34	CH	XEN MID
Soluble	Analysis	300.0		1	18411	02/02/22 21:18	SC	XEN MID

Client Sample ID: SS05 Lab Sample ID: 890-1898-3

Date Collected: 01/31/22 12:45 **Matrix: Solid** Date Received: 02/01/22 10:37

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			18258	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	18331	02/02/22 14:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	18476	02/03/22 11:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			18166	02/02/22 12:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	18343	02/02/22 14:40	AJ	XEN MID
Soluble	Leach	DI Leach			18356	02/02/22 11:34	CH	XEN MID
Soluble	Analysis	300.0		1	18411	02/02/22 21:24	SC	XEN MID

Client Sample ID: SS06 Lab Sample ID: 890-1898-4

Date Collected: 01/31/22 13:00 Matrix: Solid Date Received: 02/01/22 10:37

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			18258	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	18331	02/02/22 15:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18599	02/04/22 14:16	AJ	XEN MID

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-1898-1

 Project/Site: PLU 30 BD Fed 126h
 SDG: 31403236.029 task 04.02

Lab Sample ID: 890-1898-4

Client Sample ID: SS06

Date Collected: 01/31/22 13:00

Date Received: 02/01/22 10:37

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	18476	02/03/22 11:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			18166	02/02/22 12:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	18343	02/02/22 15:02	AJ	XEN MID
Soluble	Leach	DI Leach			18356	02/02/22 11:34	CH	XEN MID
Soluble	Analysis	300.0		1	18411	02/02/22 21:30	SC	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1898-1

 Project/Site: PLU 30 BD Fed 126h
 SDG: 31403236.029 task 04.02

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	• •	it the laboratory to not certifi	ed by the governing additionty. This list me	ay include analytes for v
,	• •	Matrix	Analyte	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

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Method Summary

Client: WSP USA Inc.

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: PLU 30 BD Fed 126h

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-1898-1

SDG: 31403236.029 task 04.02

XEN MID

XEN MID

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

SW846

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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 30 BD Fed 126h

Job ID: 890-1898-1

SDG: 31403236.029 task 04.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1898-1	SS03	Solid	01/31/22 12:15	02/01/22 10:37	0.5
890-1898-2	SS04	Solid	01/31/22 12:30	02/01/22 10:37	0.5
890-1898-3	SS05	Solid	01/31/22 12:45	02/01/22 10:37	0.5
890-1898-4	SS06	Solid	01/31/22 13:00	02/01/22 10:37	0.5

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Project Manager: Tacoma Morrisey

Phone:

City, State ZIP:

Midland, TX 79705

3300 North A Street

Company Name:

WSP

P.O. Number: Sampler's Name:

Ser Belin

SAMPLE RECEIPT

emperature (°C): eceived Intact: poler Custody Seals:

O

10.0

Temp Blank:

Yes

8

Wet Ice: Yes

Due Date: Rush: Zy/+/C

Sample Custody Seals:

Yes Yes

S 0

X

No 8

Correction Factor: Total Containers:

Number of Containers

TPH (EPA 8015)

BTEX (EPA 0=8021)

Chloride (EPA 300.0)

FOD-MA

Thermometer ID

890-1898 Chain of Custody

Costlan

Work Order Notes

1576091001

Sample Identification

Matrix

Date Sampled

Time Sampled

Depth

22/19

17.55 30 245

506

200

1504 503 Project Number: Project Name:

3403236,029

10 ho 787

Routine

Turn Around

ANALYSIS REQUEST

Email: tacoma.morrisey@wsp.com, ben.belil@wsp.com

U 30 RD Fd

Chain of Custody

					HO		
					bs,NM (575-392	Midlan	Housion
	City, State ZIP:	Address:	Company Name: XTO Energy	Bill to: (if different) Adrian Baker	-7550) Phoenix,AZ (48	d,TX (432-704-5440) E	1,1 A (201) 240-4200 De
	City, State ZIP: Carlsbad, NM 88220	3104 E Green Street	XTO Energy	Adrian Baker	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Houston, 1 X (261) 240-4200 Dailes, 1 X (214) 302-0000 Gen Chiomo, 1 X (210) 500 5001
Deliverables: EDD ADaPT	Reporting:Level III ST/UST LAP	State of Project:	Program: UST/PST □PRP □Brownfields □RC	Work Order Comments	620-2000) www.xenco.com Page		
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Revised Date 051418 Hev 2018 1					
		6			5
		4		//w.	3
2-1-22 1035	(we have	2 White Land	2-1-22/ 5:00 am	Widt Lan!	HOLEN TO
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	nn Redeived by: (Signature)	Relinquished by: (Signature)
	are due to circumstances beyond the control enforced unless previously negotiated.	d by the client if such losses are due to circumstances beyond the nailyzed. These terms will be enforced unless previously negotiated	for any losses or expenses incurred mple submitted to Xenco, but not an	mples and shall not assume any responsibility d to each project and a charge of \$5 for each s	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 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
	. It assigns standard terms and conditions	affiliates and subcontractors. It assigns standar	r from client company to Xenco, its s	nt of samples constitutes a valid purchase ord	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors
1631 / 245.1 / 7470 / 7471 : Hg		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	8RCRA Sb As Ba Be C		Circle Method(s) and Metal(s) to be analyzed
'I Sn U V Zn	Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	B Cd Ca Cr Co Cu Fe Pb Mg N	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu		Total 200.7 / 6010 200.8 / 6020:

Sample Comments

TAT starts the day recevied by the lab, if received by 4:30pm

Work Order No:

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TSU/TS ADaPT 🔲

RP

□vel IV

□uperfund

Other:

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1898-1

SDG Number: 31403236.029 task 04.02

List Source: Eurofins Carlsbad

Login Number: 1898 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	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1898-1

SDG Number: 31403236.029 task 04.02

List Source: Eurofins Midland

List Creation: 02/02/22 01:36 PM

Creator: Kramer, Jessica

Login Number: 1898

List Number: 2

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	N/A	

Eurofins Carlsbad

<6mm (1/4").



SAFETY DATA SHEET

Issuing Date 01-Aug-2019 Revision Date 01-Aug-2019 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name POLYglide Xcel-200

Other means of identification

Product Code(s) 10497

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address Manufacturer Address

PfP Industries
29738 Goynes Rd.
Katy, TX 77493

PfP Industries
29738 Goynes Rd.
Katy, TX 77493

Katy, TX 77493

Emergency telephone number

Company Phone Number 281-371-2000

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 4

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Combustible liquid

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Revision Date 01-Aug-2019

Appearance Opaque Physical state Liquid Odor Mineral Oil

Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

May be harmful in contact with skin Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight-%	Trade secret
Petroleum distillates, hydrotreated light	64742-47-8	40 - 70	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination.

Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical, Carbon dioxide (CO2), Water spray, Alcohol resistant foam,

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. In the event of

fire, cool tanks with water spray.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do

not touch or walk through spilled material.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat,

hot surfaces, sparks, open flames and other ignition sources. No smoking, Take precautionary measures against static discharges. Use with local exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

> heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular

national regulations. Store in accordance with local regulations.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protectionNo special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Opaque

Color Milky white to yellow

Odor Mineral Oil

Odor threshold No information available

Property Values Remarks • Method

 pH
 No data available
 None known

 Melting point / freezing point
 No data available
 None known

 Boiling point / boiling range
 No data available
 None known

Flash point >= 67 °C / 153 °F

Evaporation rate

No data available

None known

Flammability (solid, gas)

No data available

None known

Flammability Limit in Air None known

Upper flammability limit: No data available

Lower flammability limit: No data available
Vapor pressure No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 0.97 - 1.03

Water solubilityMiscible in waterSolubility in other solventsNo data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone known

Decomposition temperature

No data available

None known

None known

None known

None known

None known

Dynamic viscosity No data available None known

Explosive properties No information available Oxidizing properties No information available

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Other Information

Softening point No information available Molecular weight No information available **VOC Content (%)** No information available **Liquid Density** No information available **Bulk density** No information available

10. STABILITY AND REACTIVITY

No information available. Reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 5,005.00 mg/kg ATEmix (dermal) 2,002.00 mg/kg

ATEmix (inhalation-dust/mist) 5.20 mg/l

Component Information

			7
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

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Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated light 64742-47-8	-	2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static	-	4720: 96 h Den-dronereides heteropoda mg/L LC50

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3))

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Does not comply
IECSC Complies
KECL Complies

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PICCS Complies AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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16. OTHER INFORMATION. INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Health hazards 2 Flammability 2 Instability 0 Physical and chemical NFPA

properties -

HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection X

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Note No information available.

Disclaimer

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End of Safety Data Sheet

EN / AGHS

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

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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 91341

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
1	Action Number:
Midland, TX 79707	91341
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created Bv	Condition	Condition Date
Бу		Date
jnobui	Revised Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	3/21/2022