

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	NAPP2113830327
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.21146 Longitude -103.85449
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 430H	Site Type Production Well
Date Release Discovered 5/07/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
N	14	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 0.91	Volume Recovered (bbls) 0.49
☒ Produced Water	Volume Released (bbls) 4.64	Volume Recovered (bbls) 2.51
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release A needle valve on the wellhead was inadvertently left open after work on the well releasing fluids to pad. A third-party contractor has been retained for remediation activities.

Form C-141

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Kyle Littrell	Title: Environmental Manager
Signature: 	Date: 5-18-21
email: kyle.littrell@exxonmobil.com	Telephone: 432-221-7331
OCD Only	
Received by: Ramona Marcus	Date: 5/18/2021

NAPP2113830327

Location:	PLU 430H	
Spill Date:	5/7/2021	
Area 1		
Approximate Area =	5728.00	sq. ft.
Average Saturation (or depth) of spill =	0.75	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.81	bbls
Total Produced Water =	4.10	bbls
Area 2		
Approximate Area =	11339.00	sq. ft.
Average Saturation (or depth) of spill =	0.06	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.05	bbls
Total Produced Water =	0.26	bbls
Area 3		
Approximate Area =	3569.00	sq. ft.
Average Saturation (or depth) of spill =	0.03	inches
Average Porosity Factor =	0.20	
VOLUME OF LEAK		
Total Crude Oil =	0.05	bbls
Total Produced Water =	0.28	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.91	bbls
Total Produced Water =	4.64	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.49	bbls
Total Produced Water =	2.51	bbls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 28547

CONDITIONS OF APPROVAL

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707	OGRID: 5380	Action Number: 28547	Action Type: C-141
OCD Reviewer rmarcus	Condition None		

Incident ID	NAPP2113830327
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Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ 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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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

Signature: Adrian Baker Date: 01/22/2022

email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2113830327
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Facility ID	
Application ID	

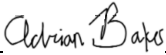
Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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 of 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
Signature:  Date: 01/22/2022
Email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

ODC 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: 02/09/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



WSP USA

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

January 20, 2022

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

**RE: Closure Request
Poker Lake Unit 430H
Incident Number NAPP2113830327
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, excavation, and soil sampling activities at the Poker Lake Unit 430H (Site) in Unit N, Section 14, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil and produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2113830327.

RELEASE BACKGROUND

On May 7, 2021, a needle valve on the wellhead was inadvertently left open, resulting in the release of approximately 0.91 barrels (bbls) of crude oil and 4.64 bbls of produced water onto the surface of the well pad. A mist from overspray settled onto the northwest corner of the well pad and a small area of pasture northwest of the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 2.51 bbls of produced water and 0.49 bbls of crude oil 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 May 18, 2021. The release was assigned Incident Number NAPP2113830327.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During January 2022, WSP installed a soil boring (C-4575) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4575 was drilled to a depth of 105 feet bgs. A WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is



included in Attachment 1. No moisture or groundwater was encountered during drilling activities. The location of the borehole is approximately 1,551 feet east of the site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is a palustrine, located approximately 1,470 feet southeast 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

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On June 14, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected eight preliminary assessment soil samples (SS01 through SS08) within the release extent and overspray area from a depth of 0.5 feet bgs to assess the lateral extent of impacted soil. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent, preliminary soil sample locations, and overspray area 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 through SS04 collected within the release extent indicated TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS05 through SS08 collected within the overspray area indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. In addition, samples SS07 and SS08, collected from overspray area in the pasture, were compliant with the reclamation standard. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between August 9, 2021 and August 11, 2021, WSP personnel returned to the Site to oversee delineation and excavation activities based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples.

Four potholes (PH01 through PH04) were advanced via backhoe within the overspray area to further confirm the absence of impacted soil. Potholes PH01 through PH04 were advanced to a depth of 2 feet bgs at the SS05 through SS08 preliminary soil sample locations, respectively. Discrete delineation soil samples were collected from each pothole at depths of 1-foot and 2 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 1. The pothole and delineation soil sample locations are depicted on Figure 3.

Excavation was completed to remove surficial staining in the release footprint and remove impacted soil in the area surrounding preliminary soil samples SS01 through SS04. Excavation activities were performed using a track-mounted backhoe and transport vehicle. To direct excavation activities, WSP personnel screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 1-foot bgs. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 2.



Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS30 were collected from the floor of the excavation, from a depth of 1-foot bgs. Due to the shallow depth of the excavation, the soil samples represented the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 5,786 square feet. A total of approximately 214 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS04 collected within the release extent indicated TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS05 through SS08 collected within the overspray area indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. In addition, samples SS07 and SS08, collected from overspray area in the pasture, were compliant with the reclamation standard.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH04 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria/reclamation standards.

Laboratory analytical results for excavation floor samples FS01 through FS30, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 7, 2021 release of produced water and crude oil at the Site. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

District II
Page 5

Initial response efforts which included removal of free-standing fluids and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs based on a recent depth to water boring and no other sensitive receptors were identified near the release extent. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number NAPP2113830327.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads 'Kalei Jennings'.

Kalei Jennings
Consultant, Environmental Scientist

A handwritten signature in black ink that reads 'Ashley L. Ager'.

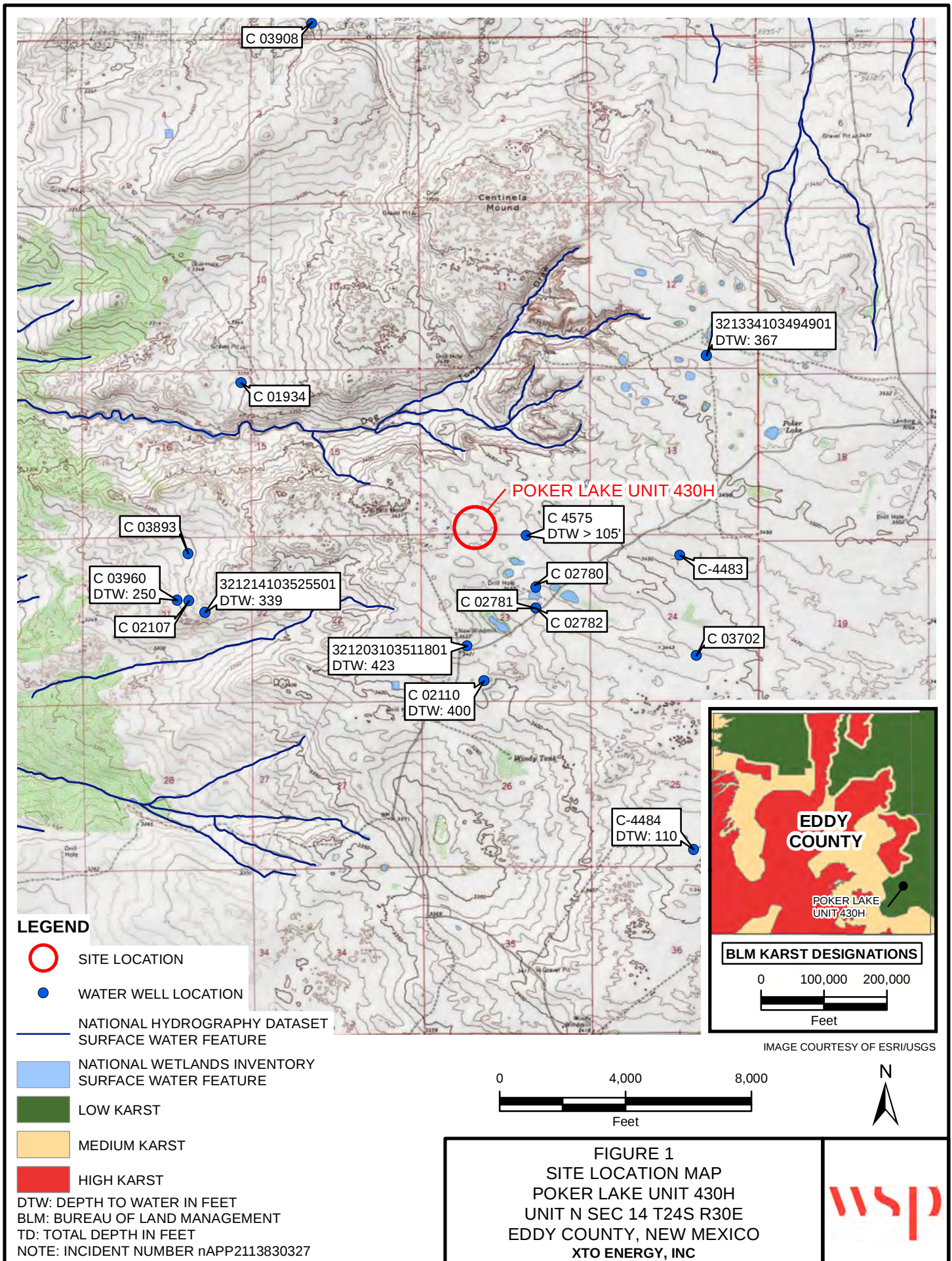
Ashley L. Ager, P.G.
Managing Director, Geologist

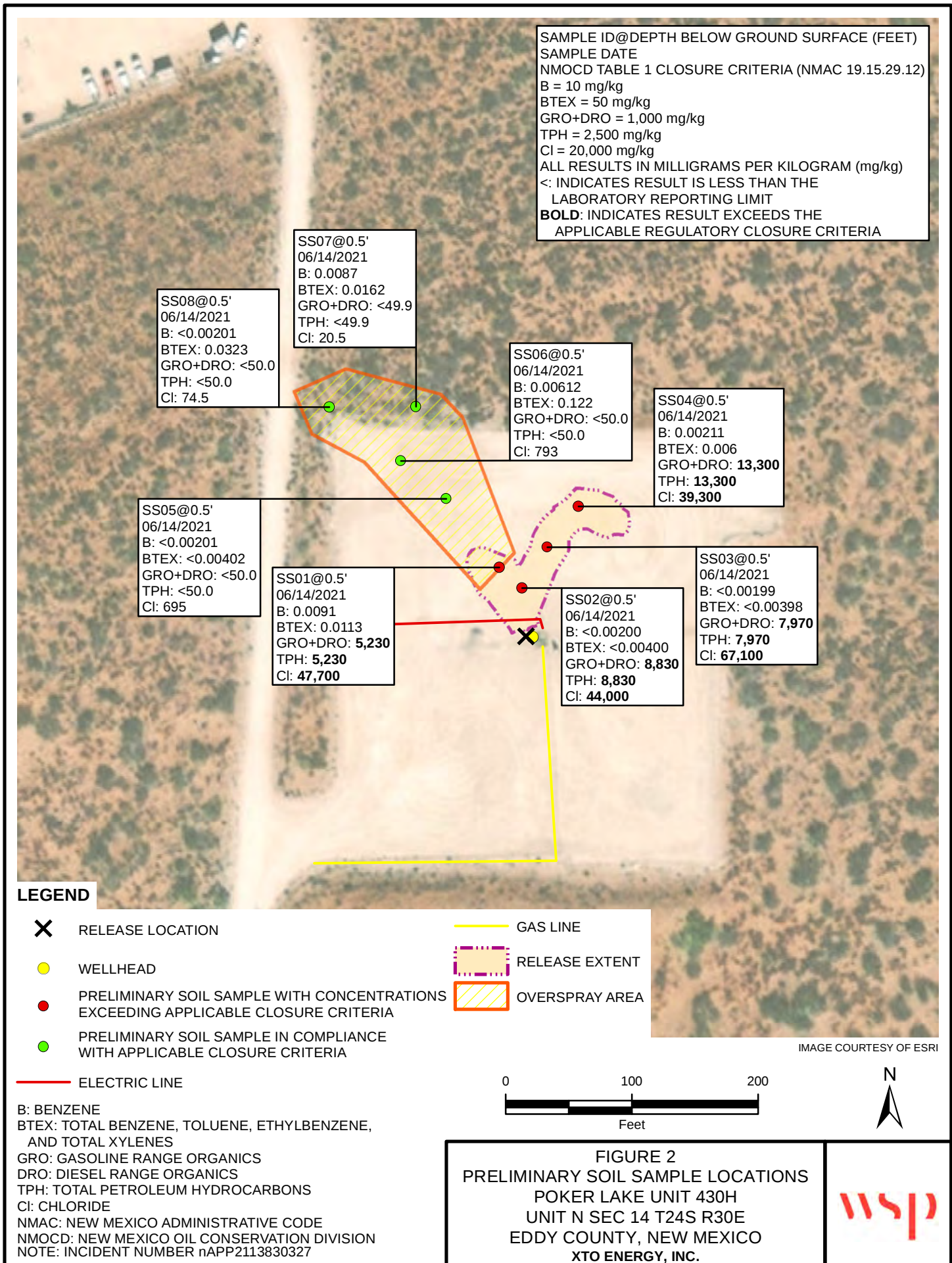
cc: Adrian Baker, XTO
Bureau of Land Management

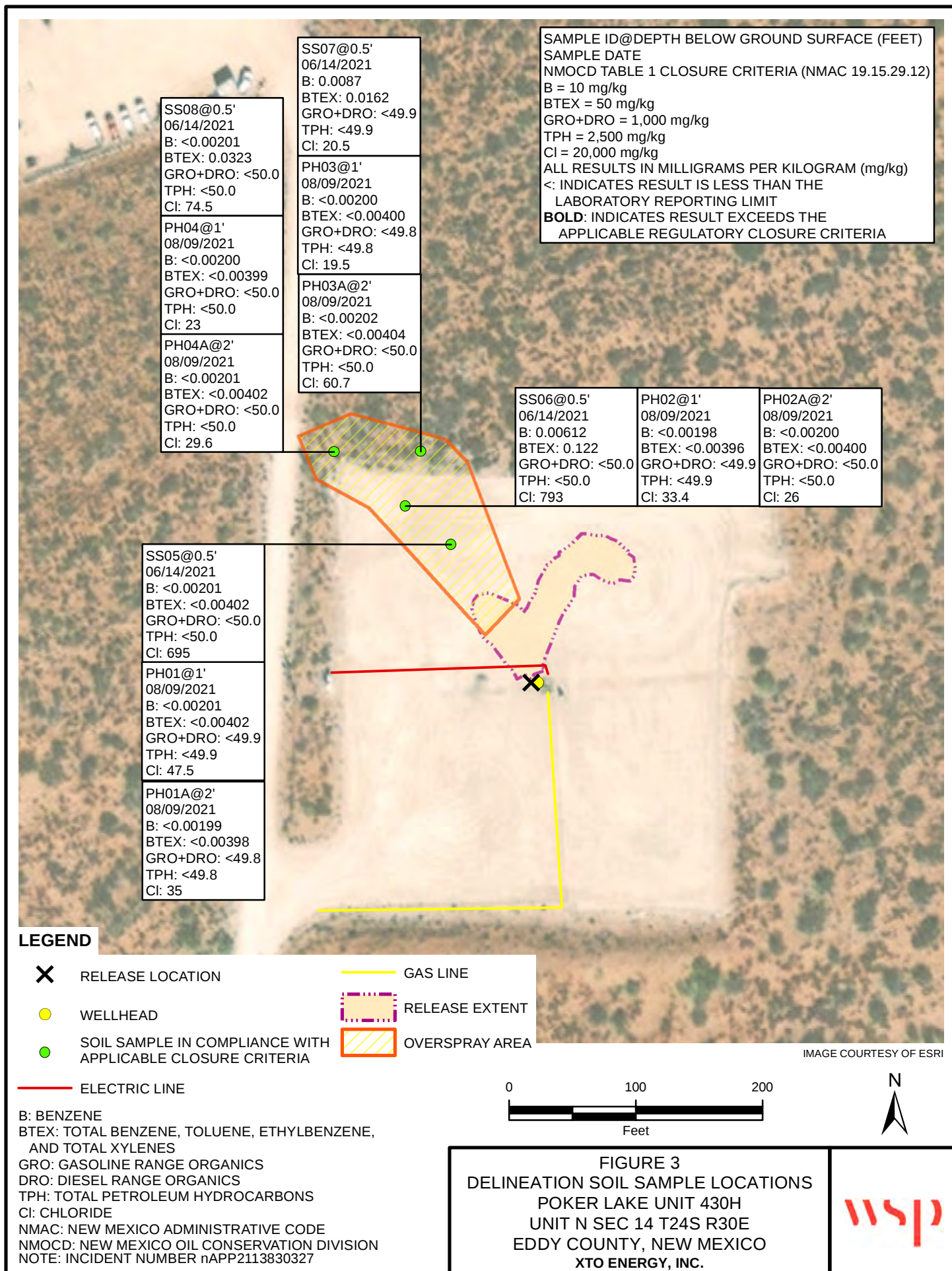
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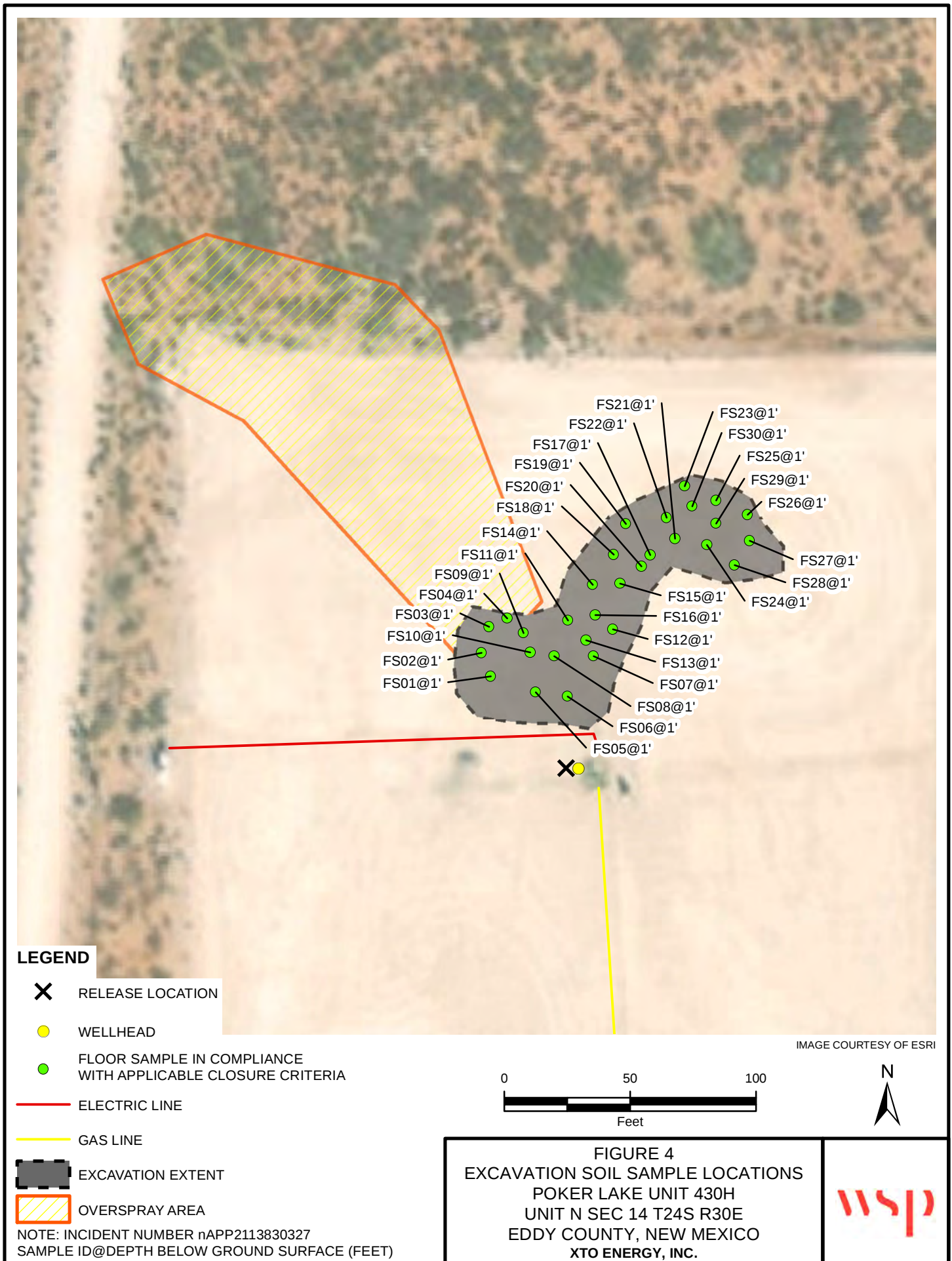
Figure 1 Site Location Map
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Lithologic/Sampling Logs
Attachment 2 Photographic Log
Attachment 3 Laboratory Analytical Reports

FIGURES









TABLES

Table 1

**Soil Analytical Results
Poker Lake Unit 430H
Incident Number NAPP2113830327
Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Samples										
SS01	06/14/2021	0.5	0.0091	0.0113	5,230	<250	<250	5,230	5,230	47,700
SS02	06/14/2021	0.5	<0.00200	<0.00400	8,830	<250	<250	8,830	8,830	44,000
SS03	06/14/2021	0.5	<0.00199	<0.00398	7,970	<250	<250	7,970	7,970	67,100
SS04	06/14/2021	0.5	0.00211	0.006	13,300	<250	<250	13,300	13,300	39,300
SS05	06/14/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	695
SS06	06/14/2021	0.5	0.00612	0.122	<50.0	<50.0	<50.0	<50.0	<50.0	793
SS07	06/14/2021	0.5	0.0087	0.0162	<49.9	<49.9	<49.9	<49.9	<49.9	20.5*
SS08	06/14/2021	0.5	<0.00201	0.0323	<50.0	<50.0	<50.0	<50.0	<50.0	74.5*
Delineation Soil Samples										
PH01	08/09/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	47.5
PH01A	08/09/2021	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	35.0
PH02	08/09/2021	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	33.4
PH02A	08/09/2021	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	26.0
PH03	08/09/2021	1	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	19.5*
PH03A	08/09/2021	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	60.7*
PH04	08/09/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	23.0*
PH04A	08/09/2021	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	29.6*
Excavation Floor Samples										
FS01	08/09/2021	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	932
FS02	08/09/2021	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	1,180
FS03	08/09/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,830

Table 1

**Soil Analytical Results
Poker Lake Unit 430H
Incident Number NAPP2113830327
Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS04	08/09/2021	1	<0.00199	<0.00398	73.5	<49.8	<49.8	73.5	73.5	2,330
FS05	08/09/2021	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	4,230
FS06	08/09/2021	1	<0.00200	<0.00400	98.4	<49.8	102	98.4	200	1,670
FS07	08/09/2021	1	<0.00199	<0.00398	191	<49.9	<49.9	191	191	2,850
FS08	08/09/2021	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	846
FS09	08/09/2021	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	3,910
FS10	08/10/2021	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	158
FS11	08/10/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	8.29
FS12	08/10/2021	1	<0.00200	0.00545	<49.8	<49.8	<49.8	<49.8	<49.8	3,240
FS13	08/10/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	547
FS14	08/10/2021	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	28.2
FS15	08/10/2021	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,240
FS16	08/10/2021	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	237
FS17	08/10/2021	1	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	322
FS18	08/10/2021	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	316
FS19	08/10/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	30.5
FS20	08/10/2021	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	466
FS21	08/10/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	686
FS22	08/10/2021	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	1,990
FS23	08/10/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	209
FS24	08/10/2021	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	441
FS25	08/10/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	174

Table 1

Soil Analytical Results
Poker Lake Unit 430H
Incident Number NAPP2113830327
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS26	08/10/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	75.8
FS27	08/10/2021	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	797
FS28	08/10/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	58.8
FS29	08/10/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	120
FS30	08/11/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	651

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

Text

 impacted soil was excavated

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

ATTACHMENT 1: LITHOLOGIC/SAMPLING LOG

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220				BH or MW Name: POD-1 (L-4575)		Date: 1				
				Site Name: PLU CUX JV BS #0 (P)						
				RP or Incident Number:						
				WSP Job Number: 31403236, 009.0129 Tsk 02						
LITHOLOGIC / SOIL SAMPLING LOG										
Lat/Long: 32.210572, -103.849559		Field Screening: NA		Logged By: BB, GM		Method: Truck-mounted Auger				
				Hole Diameter: 5"		Total Depth: 105' bgs				
						Depth to Water: >105' bgs				
Backfill or Well Construction Materials / Comments: No old screenings introduced, lithology / remarks only. Associated with PLU 470H. 1" PVC Well with 20 foot screen set @ 105' temporarily. Well removed after 72 hours.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion	
						1	CLL	0-1' CALICHE, d, l, sh		
						2	SW	unconsolidated, some f		
						3		seid no st		
						4		1-10' SAND, dry, reddish brown,		
						5		well graded, very fine - medium grain,		
						6		few caliche clasts, no stain, no odor.		
						7		10'-15' SAND, dry, light brown, well		
						8		graded, very fine - fine gr, some		
						9		caliche pebbles, no stain, no odor.		
						10		15'-20' sand, dry, light brown - tan,		
						11	SW	well graded, very fine - coarse		
						12		grained, few sub round tan - light		
						13		pink sand gravel, no stain, no odor.		
						14		20'-30' CALICHE, dry, off white - tan,		
						15		well consolidated, very silty, some		
						16	SW	subround - round small gravel,		
						17		no stain, no odor		
						18				
						19				
						20	CLL			
						21				
						22				
						23				
						24				
						25				

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name: POD-1 (C4575)		Date: 1-4-2022					
		Site Name: PLU CUX JV BS #2914 (PLU 430)							
		RP or Incident Number:							
		WSP Job Number:							
		Logged By: BB, GM							
Lat/Long:		Field Screening: N/A		Hole Diameter: 5"		Method: Triple Mounted Auger		Total Depth: 105'	
Comments:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
						26	CHE	30'-50' SAND, dry, light brown - brown, well graded, very fine - fine grained, some sub angular - angular small gravel & pebble, no stain, no odor, gradational transition from caliche.	
						27			
						28			
						29			
						30	SW	35'-40' trace sub angular - angular small gravel & pebble.	
						31		40'-50' sub angular - angular gravel & pebble absent.	
						32			
						33			
						34		50'-75' SAND, silty, brown - reddish brown, well graded, very fine - fine grained, no stain, no odor.	
						35			
						36			
						37			
						38			
						39			
						40			
						41			
						42			
						43			
						44			
						45			
						46			
						47			
						48			
						49			
						50	SW		

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WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:

POD 1 (C-4575)

Date:

1-4-2022

Site Name: PLU CVK JV BS #009H (PLU430)

RP or Incident Number:

WSP Job Number:

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening:

N/A

Logged By: BB GM

Method: Truck Mounted Auger

Hole Diameter: 5"

Total Depth: 105' bgs

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						76	SP	SAME AS ABOVE
						77		
						78		
						79		
						80		
						81		
						82		
						83		
						84		
						85		
						86		
						87		
						88		
						89		
						90		
						91		
						92		
						93		
						94		
						95		
						96		
						97		
						98		
						99		
						100		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name: PODI (C-4575)		Date: 1-4-2022				
		Site Name: PLU CVX JV BS #00911						
		RP or Incident Number:						
		WSP Job Number:						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening: NA		Logged By: BB, GM				
				Method: Truck Mounted Auger				
				Hole Diameter: 5"				
				Total Depth: 105' bgs				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						101	SP	SAME AS ABOVE. TD @ 105' bgs.
						102		
						103		
						103		
						104		
						105		
						106	TD @ 105	
						107		
						108		
						109		
						110		
						112		
						113		
						114		
						115		
						116		
						117		
						118		
						119		
						120		
						121		
						122		
						123		
						124		
						125		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH01		Date: 08/09/2021	
								Site Name: PLU 430H			
								RP or Incident Number: NAPP2113830327			
								WSP Job Number: 31403236.009.0129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EL & PB		Method: Backhoe	
Lat/Long: 32.21146, -103.85449				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A			
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)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	<179.2	0	N	PH01	1	1	SC	SAND, Reddish Brown, Fine, Poorly Graded, Clay, Low Plasticity Caliche Gravel			
D	<179.2	0	N	PH01A	2	2	SC	SAND, Reddish Brown, Fine, Poorly Graded, Clay, Low Plasticity Caliche Gravel			
TD @ 2 ft bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH02		Date: 08/09/2021	
								Site Name: PLU 430H			
								RP or Incident Number: NAPP2113830327			
								WSP Job Number: 31403236.009.0129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EL & PB		Method: Backhoe	
Lat/Long: 32.21146, -103.85449				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A			
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)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	<179.2	0	N	PH02	1	1	SC	SAND, Reddish Brown, Fine, Poorly Graded, Clay, Low Plasticity Caliche Gravel			
D	<179.2	0	N	PH02A	2	2	SC	SAND, Reddish Brown, Fine, Poorly Graded, Clay, Low Plasticity Caliche Gravel			
TD @ 2 ft bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH03		Date: 08/09/2021	
								Site Name: PLU 430H			
								RP or Incident Number: NAPP2113830327			
								WSP Job Number: 31403236.009.0129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EL & PB		Method: Backhoe	
Lat/Long: 32.21146, -103.85449				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A			
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)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	<179.2	0.5	N	PH03	1	1	SC	SAND, Reddish Brown, Fine, Poorly Graded, Clay, Low Plasticity			
D	<179.2	0.6	N	PH03A	2	2	SC	SAND, Reddish Brown, Fine, Poorly Graded, Clay, Low Plasticity			
TD @ 2 ft bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH04		Date: 08/09/2021	
								Site Name: PLU 430H			
								RP or Incident Number: NAPP2113830327			
								WSP Job Number: 31403236.009.0129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EL & PB		Method: Backhoe	
Lat/Long: 32.21146, -103.85449					Field Screening: Hach chloride strips, PID			Hole Diameter: N/A			
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)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	<179.2	1.2	N	PH04	1	1	SC	SAND, Reddish Brown, Fine, Poorly Graded, Clay, Low Plasticity			
D	<179.2	1.4	N	PH04A	2	2	SC	SAND, Reddish Brown, Fine, Poorly Graded, Clay, Low Plasticity			
TD @ 2 ft bgs											

ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy, Inc	POKER LAKE UNIT 430H Eddy County, New Mexico	NAPP2113830327

Photo No.	Date	
1	June 14, 2021	
View of release extent facing north.		 A photograph showing a wide, flat, sandy area under a clear blue sky. In the distance, a white pickup truck is parked. To the right, there is a tall, thin metal structure, possibly a wellhead or pumpjack, with a yellow railing in the foreground. The ground is light brown and sandy, with some darker patches.

Photo No.	Date	
2	June 14, 2021	
View of release extent facing south.		 A photograph showing a wide, flat, sandy area under a clear blue sky. In the distance, there are some structures and a line of trees. The ground is light brown and sandy, with some darker patches. The perspective is from a slightly elevated position, looking down at the sandy area.



PHOTOGRAPHIC LOG		
XTO Energy, Inc	POKER LAKE UNIT 430H Eddy County, New Mexico	NAPP2113830327

Photo No.	Date	
3	August 10, 2021	
View of excavation facing north.		

Photo No.	Date	
4	August 10, 2021	
View of excavation facing west.		



PHOTOGRAPHIC LOG		
XTO Energy, Inc	POKER LAKE UNIT 430H Eddy County, New Mexico	NAPP2113830327

Photo No.	Date	
5	January 14, 2022	
View of backfilled excavation.		

Photo No.	Date	
6	January 14, 2022	
View of backfilled excavation.		

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-807-1

Laboratory Sample Delivery Group: Eddy County
Client Project/Site: PLU 430H
Revision: 1

For:

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

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
6/23/2021 3:15:10 PM

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

LINKS

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results through
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Visit us at:

www.eurofinsus.com/Env

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.

Client: WSP USA Inc.
Project/Site: PLU 430H

Laboratory Job ID: 890-807-1
SDG: Eddy County

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Job ID: 890-807-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-807-1**REVISION

The report being provided is a revision of the original report sent on 6/21/2021. The report (revision 0) is being revised due to .

Receipt

The samples were received on 6/14/2021 3:51 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-807-1), SS02 (890-807-2), SS03 (890-807-3), SS04 (890-807-4), SS05 (890-807-5), SS06 (890-807-6), SS07 (890-807-7) and SS08 (890-807-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-807-1), SS02 (890-807-2), SS03 (890-807-3), SS04 (890-807-4), SS05 (890-807-5), SS06 (890-807-6), SS07 (890-807-7), SS08 (890-807-8), (CCV 880-4167/2), (CCV 880-4167/21), (CCV 880-4167/34), (CCV 880-4167/53), (LCS 880-4166/1-A), (LCSD 880-4166/2-A), (MB 880-4165/5-A), (MB 880-4166/5-A), (890-807-A-1-A MS) and (890-807-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 890-807-1

Date Collected: 06/14/21 09:15

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00910	B F1	0.00198	mg/Kg		06/16/21 10:09	06/17/21 01:47	1
Toluene	<0.00198	U F1 F2	0.00198	mg/Kg		06/16/21 10:09	06/17/21 01:47	1
Ethylbenzene	0.00221	F1 F2	0.00198	mg/Kg		06/16/21 10:09	06/17/21 01:47	1
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.00397	mg/Kg		06/16/21 10:09	06/17/21 01:47	1
o-Xylene	<0.00198	U F1 F2	0.00198	mg/Kg		06/16/21 10:09	06/17/21 01:47	1
Xylenes, Total	<0.00397	U F1 F2	0.00397	mg/Kg		06/16/21 10:09	06/17/21 01:47	1
Total BTEX	0.0113	F1 F2	0.00397	mg/Kg		06/16/21 10:09	06/17/21 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	06/16/21 10:09	06/17/21 01:47	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/16/21 10:09	06/17/21 01:47	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	<250	U	250	mg/Kg		06/16/21 13:46	06/20/21 19:00	5
Diesel Range Organics (Over C10-C28)	5230		250	mg/Kg		06/16/21 13:46	06/20/21 19:00	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		06/16/21 13:46	06/20/21 19:00	5
Total TPH	5230		250	mg/Kg		06/16/21 13:46	06/20/21 19:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	06/16/21 13:46	06/20/21 19:00	5
o-Terphenyl	73		70 - 130	06/16/21 13:46	06/20/21 19:00	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47700		251	mg/Kg			06/18/21 00:21	50

Client Sample ID: SS02

Lab Sample ID: 890-807-2

Date Collected: 06/14/21 09:18

Matrix: Solid

Date Received: 06/14/21 15:51

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		06/16/21 10:09	06/17/21 02:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:09	06/17/21 02:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:09	06/17/21 02:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/16/21 10:09	06/17/21 02:07	1
o-Xylene	0.00211		0.00200	mg/Kg		06/16/21 10:09	06/17/21 02:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/16/21 10:09	06/17/21 02:07	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/16/21 10:09	06/17/21 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/16/21 10:09	06/17/21 02:07	1
1,4-Difluorobenzene (Surr)	115		70 - 130	06/16/21 10:09	06/17/21 02:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Client Sample ID: SS02

Lab Sample ID: 890-807-2

Date Collected: 06/14/21 09:18

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250	mg/Kg		06/16/21 13:46	06/20/21 19:22	5
Diesel Range Organics (Over C10-C28)	8830		250	mg/Kg		06/16/21 13:46	06/20/21 19:22	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		06/16/21 13:46	06/20/21 19:22	5
Total TPH	8830		250	mg/Kg		06/16/21 13:46	06/20/21 19:22	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	06/16/21 13:46	06/20/21 19:22	5
o-Terphenyl	76		70 - 130	06/16/21 13:46	06/20/21 19:22	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44000		250	mg/Kg			06/18/21 00:26	50

Client Sample ID: SS03

Lab Sample ID: 890-807-3

Date Collected: 06/14/21 09:22

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:09	06/17/21 02:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:09	06/17/21 02:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:09	06/17/21 02:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/16/21 10:09	06/17/21 02:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:09	06/17/21 02:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/16/21 10:09	06/17/21 02:28	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/16/21 10:09	06/17/21 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/16/21 10:09	06/17/21 02:28	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/16/21 10:09	06/17/21 02:28	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	<250	U	250	mg/Kg		06/16/21 13:46	06/20/21 19:43	5
Diesel Range Organics (Over C10-C28)	7970		250	mg/Kg		06/16/21 13:46	06/20/21 19:43	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		06/16/21 13:46	06/20/21 19:43	5
Total TPH	7970		250	mg/Kg		06/16/21 13:46	06/20/21 19:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	06/16/21 13:46	06/20/21 19:43	5
o-Terphenyl	82		70 - 130	06/16/21 13:46	06/20/21 19:43	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67100		250	mg/Kg			06/18/21 12:08	50

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Client Sample ID: SS04

Lab Sample ID: 890-807-4

Date Collected: 06/14/21 09:24

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00211	B	0.00201	mg/Kg		06/16/21 10:09	06/17/21 02:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/16/21 10:09	06/17/21 02:48	1
Ethylbenzene	0.00389		0.00201	mg/Kg		06/16/21 10:09	06/17/21 02:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/16/21 10:09	06/17/21 02:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/16/21 10:09	06/17/21 02:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/16/21 10:09	06/17/21 02:48	1
Total BTEX	0.00600		0.00402	mg/Kg		06/16/21 10:09	06/17/21 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/16/21 10:09	06/17/21 02:48	1
1,4-Difluorobenzene (Surr)	111		70 - 130	06/16/21 10:09	06/17/21 02:48	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	<250	U	250	mg/Kg		06/16/21 13:46	06/20/21 20:04	5
Diesel Range Organics (Over C10-C28)	13300		250	mg/Kg		06/16/21 13:46	06/20/21 20:04	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		06/16/21 13:46	06/20/21 20:04	5
Total TPH	13300		250	mg/Kg		06/16/21 13:46	06/20/21 20:04	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	06/16/21 13:46	06/20/21 20:04	5
o-Terphenyl	141	S1+	70 - 130	06/16/21 13:46	06/20/21 20:04	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39300		250	mg/Kg			06/18/21 00:36	50

Client Sample ID: SS05

Lab Sample ID: 890-807-5

Date Collected: 06/14/21 10:25

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/16/21 10:09	06/17/21 03:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/16/21 10:09	06/17/21 03:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/16/21 10:09	06/17/21 03:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/16/21 10:09	06/17/21 03:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/16/21 10:09	06/17/21 03:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/16/21 10:09	06/17/21 03:09	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/16/21 10:09	06/17/21 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/16/21 10:09	06/17/21 03:09	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	06/16/21 10:09	06/17/21 03:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Client Sample ID: SS05

Lab Sample ID: 890-807-5

Date Collected: 06/14/21 10:25

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 20:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 20:26	1
Total TPH	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	06/16/21 13:46	06/20/21 20:26	1
o-Terphenyl	85		70 - 130	06/16/21 13:46	06/20/21 20:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	695		5.03	mg/Kg			06/18/21 00:41	1

Client Sample ID: SS06

Lab Sample ID: 890-807-6

Date Collected: 06/14/21 10:28

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00612	B	0.00202	mg/Kg		06/16/21 10:09	06/17/21 03:30	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/16/21 10:09	06/17/21 03:30	1
Ethylbenzene	0.0866		0.00202	mg/Kg		06/16/21 10:09	06/17/21 03:30	1
m-Xylene & p-Xylene	0.0216		0.00404	mg/Kg		06/16/21 10:09	06/17/21 03:30	1
o-Xylene	0.00746		0.00202	mg/Kg		06/16/21 10:09	06/17/21 03:30	1
Xylenes, Total	0.0291		0.00404	mg/Kg		06/16/21 10:09	06/17/21 03:30	1
Total BTEX	0.122		0.00404	mg/Kg		06/16/21 10:09	06/17/21 03:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130	06/16/21 10:09	06/17/21 03:30	1
1,4-Difluorobenzene (Surr)	116		70 - 130	06/16/21 10:09	06/17/21 03:30	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	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 20:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 20:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 20:48	1
Total TPH	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	06/16/21 13:46	06/20/21 20:48	1
o-Terphenyl	75		70 - 130	06/16/21 13:46	06/20/21 20:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	793	F1	4.99	mg/Kg			06/16/21 19:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Client Sample ID: SS07

Lab Sample ID: 890-807-7

Date Collected: 06/14/21 10:30

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00870	B	0.00199	mg/Kg		06/16/21 10:09	06/17/21 03:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:09	06/17/21 03:50	1
Ethylbenzene	0.00747		0.00199	mg/Kg		06/16/21 10:09	06/17/21 03:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/16/21 10:09	06/17/21 03:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/16/21 10:09	06/17/21 03:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/16/21 10:09	06/17/21 03:50	1
Total BTEX	0.0162		0.00398	mg/Kg		06/16/21 10:09	06/17/21 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130	06/16/21 10:09	06/17/21 03:50	1
1,4-Difluorobenzene (Surr)	130		70 - 130	06/16/21 10:09	06/17/21 03:50	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		06/16/21 13:46	06/20/21 21:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/16/21 13:46	06/20/21 21:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/16/21 13:46	06/20/21 21:09	1
Total TPH	<49.9	U	49.9	mg/Kg		06/16/21 13:46	06/20/21 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	06/16/21 13:46	06/20/21 21:09	1
o-Terphenyl	92		70 - 130	06/16/21 13:46	06/20/21 21:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		5.01	mg/Kg			06/16/21 20:03	1

Client Sample ID: SS08

Lab Sample ID: 890-807-8

Date Collected: 06/14/21 10:32

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/16/21 10:09	06/17/21 04:11	1
Toluene	0.0163		0.00201	mg/Kg		06/16/21 10:09	06/17/21 04:11	1
Ethylbenzene	0.0160		0.00201	mg/Kg		06/16/21 10:09	06/17/21 04:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/16/21 10:09	06/17/21 04:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/16/21 10:09	06/17/21 04:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/16/21 10:09	06/17/21 04:11	1
Total BTEX	0.0323		0.00402	mg/Kg		06/16/21 10:09	06/17/21 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	06/16/21 10:09	06/17/21 04:11	1
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130	06/16/21 10:09	06/17/21 04:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Client Sample ID: SS08

Lab Sample ID: 890-807-8

Date Collected: 06/14/21 10:32

Matrix: Solid

Date Received: 06/14/21 15:51

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 21:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 21:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 21:30	1
Total TPH	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	06/16/21 13:46	06/20/21 21:30	1
o-Terphenyl	85		70 - 130	06/16/21 13:46	06/20/21 21:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.5		4.97	mg/Kg			06/16/21 20:08	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-807-1	SS01	155 S1+	95
890-807-1 MS	SS01	121	124
890-807-1 MSD	SS01	87	105
890-807-2	SS02	105	115
890-807-3	SS03	94	87
890-807-4	SS04	100	111
890-807-5	SS05	114	131 S1+
890-807-6	SS06	202 S1+	116
890-807-7	SS07	166 S1+	130
890-807-8	SS08	78	57 S1-
LCS 880-4166/1-A	Lab Control Sample	101	113
LCSD 880-4166/2-A	Lab Control Sample Dup	88	97
MB 880-4165/5-A	Method Blank	103	88
MB 880-4166/5-A	Method Blank	125	105
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-807-1	SS01	84	73
890-807-2	SS02	84	76
890-807-3	SS03	84	82
890-807-4	SS04	75	141 S1+
890-807-5	SS05	92	85
890-807-6	SS06	86	75
890-807-7	SS07	101	92
890-807-8	SS08	98	85
LCS 880-4196/2-A	Lab Control Sample	89	74
LCSD 880-4196/3-A	Lab Control Sample Dup	105	88
MB 880-4196/1-A	Method Blank	91	84
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4165/5-A

Matrix: Solid

Analysis Batch: 4167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4165

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:06	06/16/21 13:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:06	06/16/21 13:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:06	06/16/21 13:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/16/21 10:06	06/16/21 13:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:06	06/16/21 13:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/16/21 10:06	06/16/21 13:41	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/16/21 10:06	06/16/21 13:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/16/21 10:06	06/16/21 13:41	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/16/21 10:06	06/16/21 13:41	1

Lab Sample ID: MB 880-4166/5-A

Matrix: Solid

Analysis Batch: 4167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4166

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.003726		0.00200	mg/Kg		06/16/21 10:09	06/17/21 01:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:09	06/17/21 01:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:09	06/17/21 01:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/16/21 10:09	06/17/21 01:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/21 10:09	06/17/21 01:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/16/21 10:09	06/17/21 01:25	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/16/21 10:09	06/17/21 01:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	06/16/21 10:09	06/17/21 01:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130	06/16/21 10:09	06/17/21 01:25	1

Lab Sample ID: LCS 880-4166/1-A

Matrix: Solid

Analysis Batch: 4167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07323		mg/Kg		73	70 - 130
Toluene	0.100	0.09465		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09106		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09467		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-4166/2-A

Matrix: Solid

Analysis Batch: 4167

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4166

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07843		mg/Kg		78	70 - 130	7	35
Toluene	0.100	0.08761		mg/Kg		88	70 - 130	8	35
Ethylbenzene	0.100	0.08378		mg/Kg		84	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1769		mg/Kg		88	70 - 130	4	35
o-Xylene	0.100	0.08737		mg/Kg		87	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-807-1 MS

Matrix: Solid

Analysis Batch: 4167

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 4166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00910	B F1	0.0990	0.03338	F1	mg/Kg		25	70 - 130		
Toluene	<0.00198	U F1 F2	0.0990	0.03559	F1	mg/Kg		36	70 - 130		
Ethylbenzene	0.00221	F1 F2	0.0990	0.03112	F1	mg/Kg		29	70 - 130		
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.198	0.06285	F1	mg/Kg		32	70 - 130		
o-Xylene	<0.00198	U F1 F2	0.0990	0.02830	F1	mg/Kg		29	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Lab Sample ID: 890-807-1 MSD

Matrix: Solid

Analysis Batch: 4167

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 4166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00910	B F1	0.100	0.02549	F1	mg/Kg		16	70 - 130	27	35
Toluene	<0.00198	U F1 F2	0.100	0.02116	F1 F2	mg/Kg		21	70 - 130	51	35
Ethylbenzene	0.00221	F1 F2	0.100	0.01658	F1 F2	mg/Kg		14	70 - 130	61	35
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.200	0.03248	F1 F2	mg/Kg		16	70 - 130	64	35
o-Xylene	<0.00198	U F1 F2	0.100	0.01687	F1 F2	mg/Kg		17	70 - 130	51	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

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

Lab Sample ID: MB 880-4196/1-A

Matrix: Solid

Analysis Batch: 4362

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4196

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 12:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 12:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 12:32	1
Total TPH	<50.0	U	50.0	mg/Kg		06/16/21 13:46	06/20/21 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	06/16/21 13:46	06/20/21 12:32	1
o-Terphenyl	84		70 - 130	06/16/21 13:46	06/20/21 12:32	1

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

Matrix: Solid

Analysis Batch: 4362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4196

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	74		70 - 130

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

Matrix: Solid

Analysis Batch: 4362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1049		mg/Kg		105	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130	18	20

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4180/1-A

Matrix: Solid

Analysis Batch: 4201

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/16/21 19:33	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4180/2-A

Matrix: Solid

Analysis Batch: 4201

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	231.4		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-4180/3-A

Matrix: Solid

Analysis Batch: 4201

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	231.6		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-807-6 MS

Matrix: Solid

Analysis Batch: 4201

Client Sample ID: SS06

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	793	F1	250	1002	F1	mg/Kg		83	90 - 110

Lab Sample ID: 890-807-6 MSD

Matrix: Solid

Analysis Batch: 4201

Client Sample ID: SS06

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	793	F1	250	1001	F1	mg/Kg		83	90 - 110	0	20

Lab Sample ID: MB 880-4184/1-A

Matrix: Solid

Analysis Batch: 4256

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/17/21 22:14	1

Lab Sample ID: LCS 880-4184/2-A

Matrix: Solid

Analysis Batch: 4256

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	231.5		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-4184/3-A

Matrix: Solid

Analysis Batch: 4256

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	231.6		mg/Kg		93	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

GC VOA

Prep Batch: 4165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4165/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 4166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-1	SS01	Total/NA	Solid	5035	
890-807-2	SS02	Total/NA	Solid	5035	
890-807-3	SS03	Total/NA	Solid	5035	
890-807-4	SS04	Total/NA	Solid	5035	
890-807-5	SS05	Total/NA	Solid	5035	
890-807-6	SS06	Total/NA	Solid	5035	
890-807-7	SS07	Total/NA	Solid	5035	
890-807-8	SS08	Total/NA	Solid	5035	
MB 880-4166/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4166/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4166/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-807-1 MS	SS01	Total/NA	Solid	5035	
890-807-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 4167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-1	SS01	Total/NA	Solid	8021B	4166
890-807-2	SS02	Total/NA	Solid	8021B	4166
890-807-3	SS03	Total/NA	Solid	8021B	4166
890-807-4	SS04	Total/NA	Solid	8021B	4166
890-807-5	SS05	Total/NA	Solid	8021B	4166
890-807-6	SS06	Total/NA	Solid	8021B	4166
890-807-7	SS07	Total/NA	Solid	8021B	4166
890-807-8	SS08	Total/NA	Solid	8021B	4166
MB 880-4165/5-A	Method Blank	Total/NA	Solid	8021B	4165
MB 880-4166/5-A	Method Blank	Total/NA	Solid	8021B	4166
LCS 880-4166/1-A	Lab Control Sample	Total/NA	Solid	8021B	4166
LCSD 880-4166/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4166
890-807-1 MS	SS01	Total/NA	Solid	8021B	4166
890-807-1 MSD	SS01	Total/NA	Solid	8021B	4166

GC Semi VOA

Prep Batch: 4196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-1	SS01	Total/NA	Solid	8015NM Prep	
890-807-2	SS02	Total/NA	Solid	8015NM Prep	
890-807-3	SS03	Total/NA	Solid	8015NM Prep	
890-807-4	SS04	Total/NA	Solid	8015NM Prep	
890-807-5	SS05	Total/NA	Solid	8015NM Prep	
890-807-6	SS06	Total/NA	Solid	8015NM Prep	
890-807-7	SS07	Total/NA	Solid	8015NM Prep	
890-807-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-4196/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4196/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4196/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 4362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-1	SS01	Total/NA	Solid	8015B NM	4196
890-807-2	SS02	Total/NA	Solid	8015B NM	4196
890-807-3	SS03	Total/NA	Solid	8015B NM	4196
890-807-4	SS04	Total/NA	Solid	8015B NM	4196
890-807-5	SS05	Total/NA	Solid	8015B NM	4196
890-807-6	SS06	Total/NA	Solid	8015B NM	4196
890-807-7	SS07	Total/NA	Solid	8015B NM	4196
890-807-8	SS08	Total/NA	Solid	8015B NM	4196
MB 880-4196/1-A	Method Blank	Total/NA	Solid	8015B NM	4196
LCS 880-4196/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4196
LCSD 880-4196/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4196

HPLC/IC

Leach Batch: 4180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-6	SS06	Soluble	Solid	DI Leach	
890-807-7	SS07	Soluble	Solid	DI Leach	
890-807-8	SS08	Soluble	Solid	DI Leach	
MB 880-4180/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4180/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4180/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-807-6 MS	SS06	Soluble	Solid	DI Leach	
890-807-6 MSD	SS06	Soluble	Solid	DI Leach	

Leach Batch: 4184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-1	SS01	Soluble	Solid	DI Leach	
890-807-2	SS02	Soluble	Solid	DI Leach	
890-807-3	SS03	Soluble	Solid	DI Leach	
890-807-4	SS04	Soluble	Solid	DI Leach	
890-807-5	SS05	Soluble	Solid	DI Leach	
MB 880-4184/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4184/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4184/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-6	SS06	Soluble	Solid	300.0	4180
890-807-7	SS07	Soluble	Solid	300.0	4180
890-807-8	SS08	Soluble	Solid	300.0	4180
MB 880-4180/1-A	Method Blank	Soluble	Solid	300.0	4180
LCS 880-4180/2-A	Lab Control Sample	Soluble	Solid	300.0	4180
LCSD 880-4180/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4180
890-807-6 MS	SS06	Soluble	Solid	300.0	4180
890-807-6 MSD	SS06	Soluble	Solid	300.0	4180

Analysis Batch: 4256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-1	SS01	Soluble	Solid	300.0	4184
890-807-2	SS02	Soluble	Solid	300.0	4184

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 4256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-807-3	SS03	Soluble	Solid	300.0	4184
890-807-4	SS04	Soluble	Solid	300.0	4184
890-807-5	SS05	Soluble	Solid	300.0	4184
MB 880-4184/1-A	Method Blank	Soluble	Solid	300.0	4184
LCS 880-4184/2-A	Lab Control Sample	Soluble	Solid	300.0	4184
LCSD 880-4184/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4184

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 890-807-1

Date Collected: 06/14/21 09:15

Matrix: Solid

Date Received: 06/14/21 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4166	06/16/21 10:09	KL	XEN MID
Total/NA	Analysis	8021B		1	4167	06/17/21 01:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		5	4362	06/20/21 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			4184	06/16/21 12:06	CH	XEN MID
Soluble	Analysis	300.0		50	4256	06/18/21 00:21	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-807-2

Date Collected: 06/14/21 09:18

Matrix: Solid

Date Received: 06/14/21 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4166	06/16/21 10:09	KL	XEN MID
Total/NA	Analysis	8021B		1	4167	06/17/21 02:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		5	4362	06/20/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			4184	06/16/21 12:06	CH	XEN MID
Soluble	Analysis	300.0		50	4256	06/18/21 00:26	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-807-3

Date Collected: 06/14/21 09:22

Matrix: Solid

Date Received: 06/14/21 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4166	06/16/21 10:09	KL	XEN MID
Total/NA	Analysis	8021B		1	4167	06/17/21 02:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		5	4362	06/20/21 19:43	AJ	XEN MID
Soluble	Leach	DI Leach			4184	06/16/21 12:06	CH	XEN MID
Soluble	Analysis	300.0		50	4256	06/18/21 12:08	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-807-4

Date Collected: 06/14/21 09:24

Matrix: Solid

Date Received: 06/14/21 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4166	06/16/21 10:09	KL	XEN MID
Total/NA	Analysis	8021B		1	4167	06/17/21 02:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		5	4362	06/20/21 20:04	AJ	XEN MID
Soluble	Leach	DI Leach			4184	06/16/21 12:06	CH	XEN MID
Soluble	Analysis	300.0		50	4256	06/18/21 00:36	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Client Sample ID: SS05

Lab Sample ID: 890-807-5

Date Collected: 06/14/21 10:25

Matrix: Solid

Date Received: 06/14/21 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4166	06/16/21 10:09	KL	XEN MID
Total/NA	Analysis	8021B		1	4167	06/17/21 03:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 20:26	AJ	XEN MID
Soluble	Leach	DI Leach			4184	06/16/21 12:06	CH	XEN MID
Soluble	Analysis	300.0		1	4256	06/18/21 00:41	CH	XEN MID

Client Sample ID: SS06

Lab Sample ID: 890-807-6

Date Collected: 06/14/21 10:28

Matrix: Solid

Date Received: 06/14/21 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4166	06/16/21 10:09	KL	XEN MID
Total/NA	Analysis	8021B		1	4167	06/17/21 03:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 20:48	AJ	XEN MID
Soluble	Leach	DI Leach			4180	06/16/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1	4201	06/16/21 19:48	CH	XEN MID

Client Sample ID: SS07

Lab Sample ID: 890-807-7

Date Collected: 06/14/21 10:30

Matrix: Solid

Date Received: 06/14/21 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4166	06/16/21 10:09	KL	XEN MID
Total/NA	Analysis	8021B		1	4167	06/17/21 03:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 21:09	AJ	XEN MID
Soluble	Leach	DI Leach			4180	06/16/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1	4201	06/16/21 20:03	CH	XEN MID

Client Sample ID: SS08

Lab Sample ID: 890-807-8

Date Collected: 06/14/21 10:32

Matrix: Solid

Date Received: 06/14/21 15:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4166	06/16/21 10:09	KL	XEN MID
Total/NA	Analysis	8021B		1	4167	06/17/21 04:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			4196	06/16/21 13:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4362	06/20/21 21:30	AJ	XEN MID
Soluble	Leach	DI Leach			4180	06/16/21 11:58	CH	XEN MID
Soluble	Analysis	300.0		1	4201	06/16/21 20:08	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-807-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-807-1	SS01	Solid	06/14/21 09:15	06/14/21 15:51	- 0.5
890-807-2	SS02	Solid	06/14/21 09:18	06/14/21 15:51	- 0.5
890-807-3	SS03	Solid	06/14/21 09:22	06/14/21 15:51	- 0.5
890-807-4	SS04	Solid	06/14/21 09:24	06/14/21 15:51	- 0.5
890-807-5	SS05	Solid	06/14/21 10:25	06/14/21 15:51	- 0.5
890-807-6	SS06	Solid	06/14/21 10:28	06/14/21 15:51	- 0.5
890-807-7	SS07	Solid	06/14/21 10:30	06/14/21 15:51	- 0.5
890-807-8	SS08	Solid	06/14/21 10:32	06/14/21 15:51	- 0.5

Eurofins Xenco, Carlsbad



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 659-6701

Chain of Custody

Work Order No: _____

Project Manager:	Kale Jennings	Bill to: (if different)	Kyle Little
Company Name:	WGP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Greene St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Cleburn, NM 88220
Phone:	(817) 683-2503	Email:	Kale.jennings@wgp.com

Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RCRA ☐ Superfund ☐
State of Project:	
Reporting Level:	Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:	PLU 4301H	Turn Around	
Project Number:	31403236 009 0129	Routine	☒
Project Location:	Eddy County	Rush:	
Sampler's Name:	Fatihma Smith	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	2.2 / 2.0			Thermometer ID	2NM-007	
Received intact:	Yes	No			Correction Factor:	-0.2
Cooler Custody Seals:	Yes	No	N/A			Total Containers:
Sample Custody Seals:	Yes	No	N/A			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Analysis Request	Preservative Codes	Sample Comments
6601		S	6/14/21	0915	0.5'	1	TPH (EPA 8015)	MeOH: Me	
6602				0918			BTEX (EPA 0=8021)	None: NO	
6603				0922			Chloride (EPA 300.0)	HNO3: HN	
6604				0924				H2SO4: H2	
6605				1025				HCL: HL	
6606				1028				NaOH: Na	
6607				1030				Zn Acetate+ NaOH: Zn	
6608				1032				TAT starts the day received by the lab, if received by 4:00pm	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	6/14/21 1551			

Incident # NAPP2113830327
 CC 1140861001

Revised Date 02/26/19 Rev 2019.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-807-1

SDG Number: Eddy County

Login Number: 807**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

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: 890-807-1

SDG Number: Eddy County

Login Number: 807**List Number: 2****Creator: Copeland, Tatiana****List Source: Eurofins Xenco, Midland****List Creation: 06/16/21 11:39 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1081-1

Laboratory Sample Delivery Group: 31403236.009.0129

Client Project/Site: PLU 430

For:

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

Attn: Dan Moir

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
8/13/2021 12:43:00 PM

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

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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.

Client: WSP USA Inc.
Project/Site: PLU 430

Laboratory Job ID: 890-1081-1
SDG: 31403236.009.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Job ID: 890-1081-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1081-1****Receipt**

The samples were received on 8/9/2021 5:00 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 4.6°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH04 (890-1081-7) and PH04A (890-1081-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Client Sample ID: PH01

Lab Sample ID: 890-1081-1

Date Collected: 08/09/21 11:10

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:15	08/12/21 05:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:15	08/12/21 05:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:15	08/12/21 05:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/11/21 09:15	08/12/21 05:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:15	08/12/21 05:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/11/21 09:15	08/12/21 05:40	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/11/21 09:15	08/12/21 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/11/21 09:15	08/12/21 05:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/11/21 09:15	08/12/21 05:40	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		08/11/21 15:10	08/12/21 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:10	08/12/21 17:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:10	08/12/21 17:55	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:10	08/12/21 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/11/21 15:10	08/12/21 17:55	1
o-Terphenyl	101		70 - 130	08/11/21 15:10	08/12/21 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.5		5.02	mg/Kg			08/12/21 22:25	1

Client Sample ID: PH01A

Lab Sample ID: 890-1081-2

Date Collected: 08/09/21 11:11

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:15	08/12/21 06:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:15	08/12/21 06:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:15	08/12/21 06:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:15	08/12/21 06:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:15	08/12/21 06:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:15	08/12/21 06:00	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:15	08/12/21 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	08/11/21 09:15	08/12/21 06:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/11/21 09:15	08/12/21 06:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Client Sample ID: PH01A

Lab Sample ID: 890-1081-2

Date Collected: 08/09/21 11:11

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 15:10	08/12/21 18:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 15:10	08/12/21 18:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 15:10	08/12/21 18:15	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 15:10	08/12/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/11/21 15:10	08/12/21 18:15	1
o-Terphenyl	98		70 - 130	08/11/21 15:10	08/12/21 18:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.0		5.04	mg/Kg			08/12/21 22:30	1

Client Sample ID: PH02

Lab Sample ID: 890-1081-3

Date Collected: 08/09/21 11:13

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:15	08/12/21 06:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:15	08/12/21 06:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:15	08/12/21 06:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/11/21 09:15	08/12/21 06:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:15	08/12/21 06:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/11/21 09:15	08/12/21 06:21	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/11/21 09:15	08/12/21 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/11/21 09:15	08/12/21 06:21	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/11/21 09:15	08/12/21 06:21	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		08/11/21 15:10	08/12/21 18:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:10	08/12/21 18:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:10	08/12/21 18:35	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:10	08/12/21 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/11/21 15:10	08/12/21 18:35	1
o-Terphenyl	99		70 - 130	08/11/21 15:10	08/12/21 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.4		4.98	mg/Kg			08/12/21 22:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Client Sample ID: PH02A

Lab Sample ID: 890-1081-4

Date Collected: 08/09/21 11:15

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/12/21 06:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/12/21 06:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/12/21 06:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/12/21 06:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/12/21 06:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/12/21 06:41	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/12/21 06:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/11/21 09:15	08/12/21 06:41	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	08/11/21 09:15	08/12/21 06:41	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	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 18:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 18:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 18:56	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/11/21 15:10	08/12/21 18:56	1
o-Terphenyl	99		70 - 130	08/11/21 15:10	08/12/21 18:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.0		5.00	mg/Kg			08/12/21 22:41	1

Client Sample ID: PH03

Lab Sample ID: 890-1081-5

Date Collected: 08/09/21 11:18

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/12/21 07:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/12/21 07:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/12/21 07:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/12/21 07:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/12/21 07:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/12/21 07:02	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/12/21 07:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	08/11/21 09:15	08/12/21 07:02	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/11/21 09:15	08/12/21 07:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Client Sample ID: PH03

Lab Sample ID: 890-1081-5

Date Collected: 08/09/21 11:18

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 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	<49.8	U	49.8	mg/Kg		08/11/21 15:10	08/12/21 19:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 15:10	08/12/21 19:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 15:10	08/12/21 19:16	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 15:10	08/12/21 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	08/11/21 15:10	08/12/21 19:16	1
o-Terphenyl	116		70 - 130	08/11/21 15:10	08/12/21 19:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.5		4.98	mg/Kg			08/12/21 22:58	1

Client Sample ID: PH03A

Lab Sample ID: 890-1081-6

Date Collected: 08/09/21 11:19

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/11/21 09:15	08/12/21 07:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/11/21 09:15	08/12/21 07:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/11/21 09:15	08/12/21 07:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/11/21 09:15	08/12/21 07:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/11/21 09:15	08/12/21 07:22	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/11/21 09:15	08/12/21 07:22	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		08/11/21 09:15	08/12/21 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	08/11/21 09:15	08/12/21 07:22	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/11/21 09:15	08/12/21 07:22	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	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 19:36	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/11/21 15:10	08/12/21 19:36	1
o-Terphenyl	108		70 - 130	08/11/21 15:10	08/12/21 19:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.7		4.95	mg/Kg			08/12/21 23:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Client Sample ID: PH04

Lab Sample ID: 890-1081-7

Date Collected: 08/09/21 11:21

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:54	08/12/21 02:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:54	08/12/21 02:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:54	08/12/21 02:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/21 09:54	08/12/21 02:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:54	08/12/21 02:48	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/21 09:54	08/12/21 02:48	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 09:54	08/12/21 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/11/21 09:54	08/12/21 02:48	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/11/21 09:54	08/12/21 02:48	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	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 19:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 19:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 19:57	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/11/21 15:10	08/12/21 19:57	1
o-Terphenyl	118		70 - 130	08/11/21 15:10	08/12/21 19:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.0		4.97	mg/Kg			08/12/21 23:21	1

Client Sample ID: PH04A

Lab Sample ID: 890-1081-8

Date Collected: 08/09/21 11:22

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:54	08/12/21 03:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:54	08/12/21 03:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:54	08/12/21 03:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/11/21 09:54	08/12/21 03:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:54	08/12/21 03:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/11/21 09:54	08/12/21 03:09	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/11/21 09:54	08/12/21 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/11/21 09:54	08/12/21 03:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/11/21 09:54	08/12/21 03:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Client Sample ID: PH04A

Lab Sample ID: 890-1081-8

Date Collected: 08/09/21 11:22

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 12:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 12:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 12:05	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/11/21 15:28	08/12/21 12:05	1
o-Terphenyl	117		70 - 130	08/11/21 15:28	08/12/21 12:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.6		4.99	mg/Kg			08/12/21 23:26	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1073-A-2-D MS	Matrix Spike	118	109
890-1073-A-2-E MSD	Matrix Spike Duplicate	124	101
890-1081-1	PH01	124	93
890-1081-2	PH01A	126	93
890-1081-3	PH02	123	87
890-1081-4	PH02A	132 S1+	68 S1-
890-1081-5	PH03	125	97
890-1081-6	PH03A	93	80
890-1081-7	PH04	117	104
890-1081-7 MS	PH04	112	101
890-1081-8	PH04A	118	100
LCS 880-6355/1-A	Lab Control Sample	113	106
LCS 880-6377/1-A	Lab Control Sample	111	98
LCSD 880-6355/2-A	Lab Control Sample Dup	107	104
LCSD 880-6377/2-A	Lab Control Sample Dup	105	97
MB 880-6333/5-A	Method Blank	104	95
MB 880-6355/5-A	Method Blank	93	95
MB 880-6372/5-A	Method Blank	119	105
MB 880-6377/5-A	Method Blank	131 S1+	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-1081-7 MSD	PH04		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1078-A-1-D MS	Matrix Spike	95	92
890-1078-A-1-E MSD	Matrix Spike Duplicate	94	93
890-1081-1	PH01	99	101
890-1081-2	PH01A	98	98
890-1081-3	PH02	100	99
890-1081-4	PH02A	101	99
890-1081-5	PH03	113	116
890-1081-6	PH03A	103	108
890-1081-7	PH04	116	118

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1081-8	PH04A	103	117
890-1081-8 MS	PH04A	98	99
890-1081-8 MSD	PH04A	101	97
LCS 880-6410/2-A	Lab Control Sample	90	90
LCS 880-6412/2-A	Lab Control Sample	116	134 S1+
LCSD 880-6410/3-A	Lab Control Sample Dup	91	91
LCSD 880-6412/3-A	Lab Control Sample Dup	114	126
MB 880-6410/1-A	Method Blank	95	103
MB 880-6412/1-A	Method Blank	100	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6333/5-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6333

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/11/21 10:00	08/11/21 12:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/11/21 10:00	08/11/21 12:40	1

Lab Sample ID: MB 880-6355/5-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6355

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/11/21 23:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/11/21 23:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/11/21 23:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/11/21 23:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:15	08/11/21 23:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/11/21 23:32	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 09:15	08/11/21 23:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	08/11/21 09:15	08/11/21 23:32	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/11/21 09:15	08/11/21 23:32	1

Lab Sample ID: LCS 880-6355/1-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1013		mg/Kg		101	70 - 130
Toluene	0.100	0.09167		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09180		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1906		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09547		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

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

Lab Sample ID: LCSD 880-6355/2-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1025		mg/Kg		102	70 - 130	1	35
Toluene	0.100	0.09444		mg/Kg		94	70 - 130	3	35
Ethylbenzene	0.100	0.09414		mg/Kg		94	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1922		mg/Kg		96	70 - 130	1	35
o-Xylene	0.100	0.09627		mg/Kg		96	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1073-A-2-D MS

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.100	0.09317		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.100	0.07547		mg/Kg		74	70 - 130
Ethylbenzene	0.00272	F1	0.100	0.06384	F1	mg/Kg		61	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.1343	F1	mg/Kg		66	70 - 130
o-Xylene	0.00523	F1	0.100	0.07599		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-1073-A-2-E MSD

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.06656	F1	mg/Kg		67	70 - 130	33	35
Toluene	<0.00200	U	0.100	0.07459		mg/Kg		74	70 - 130	1	35
Ethylbenzene	0.00272	F1	0.100	0.05935	F1	mg/Kg		57	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1406	F1	mg/Kg		69	70 - 130	5	35
o-Xylene	0.00523	F1	0.100	0.07436	F1	mg/Kg		69	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-6372/5-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 14:44	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

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

Lab Sample ID: MB 880-6372/5-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 09:46	08/11/21 14:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/11/21 09:46	08/11/21 14:44	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/11/21 09:46	08/11/21 14:44	1

Lab Sample ID: MB 880-6377/5-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6377

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:54	08/12/21 02:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:54	08/12/21 02:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:54	08/12/21 02:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 09:54	08/12/21 02:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:54	08/12/21 02:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 09:54	08/12/21 02:20	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 09:54	08/12/21 02:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	08/11/21 09:54	08/12/21 02:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/11/21 09:54	08/12/21 02:20	1

Lab Sample ID: LCS 880-6377/1-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08155		mg/Kg		82	70 - 130
Toluene	0.100	0.08608		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08954		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1926		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09819		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-6377/2-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6377

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08511		mg/Kg		85	70 - 130	4	35
Toluene	0.100	0.08004		mg/Kg		80	70 - 130	7	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

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

Lab Sample ID: LCSD 880-6377/2-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6377

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.08291		mg/Kg		83	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1765		mg/Kg		88	70 - 130	9	35
o-Xylene	0.100	0.08776		mg/Kg		88	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1081-7 MSD

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: PH04

Prep Type: Total/NA

Prep Batch: 6377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.07963		mg/Kg					
Toluene	<0.00200	U	0.101	0.07490		mg/Kg					
Ethylbenzene	<0.00200	U	0.101	0.07736		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1649		mg/Kg					
o-Xylene	<0.00200	U	0.101	0.08350		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1081-7 MS

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: PH04

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.07786		mg/Kg		78	70 - 130		
Toluene	<0.00200	U	0.0998	0.07445		mg/Kg		74	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.07737		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1625		mg/Kg		81	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.08180		mg/Kg		81	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-6410/1-A

Matrix: Solid

Analysis Batch: 6423

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6410

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 11:04	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

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

Lab Sample ID: MB 880-6410/1-A

Matrix: Solid

Analysis Batch: 6423

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6410

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 11:04	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:10	08/12/21 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/11/21 15:10	08/12/21 11:04	1
o-Terphenyl	103		70 - 130	08/11/21 15:10	08/12/21 11:04	1

Lab Sample ID: LCS 880-6410/2-A

Matrix: Solid

Analysis Batch: 6423

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	778.9		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.9		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-6410/3-A

Matrix: Solid

Analysis Batch: 6423

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	889.5		mg/Kg		89	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	875.4		mg/Kg		88	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-1078-A-1-D MS

Matrix: Solid

Analysis Batch: 6423

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	973.7		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	803.6		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

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

Lab Sample ID: 890-1078-A-1-E MSD

Matrix: Solid

Analysis Batch: 6423

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	916.8		mg/Kg		90	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	826.8		mg/Kg		83	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: MB 880-6412/1-A

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6412

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			08/11/21 15:28	08/12/21 11:04	1
o-Terphenyl	127		70 - 130			08/11/21 15:28	08/12/21 11:04	1

Lab Sample ID: LCS 880-6412/2-A

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	975.9		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1080		mg/Kg		108	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	116		70 - 130					
o-Terphenyl	134	S1+	70 - 130					

Lab Sample ID: LCSD 880-6412/3-A

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	966.1		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130	3	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

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

Lab Sample ID: LCSD 880-6412/3-A

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6412

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 890-1081-8 MS

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: PH04A

Prep Type: Total/NA

Prep Batch: 6412

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	898.9		mg/Kg		86	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	995	868.7		mg/Kg		87	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	98		70 - 130							
o-Terphenyl	99		70 - 130							

Lab Sample ID: 890-1081-8 MSD

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: PH04A

Prep Type: Total/NA

Prep Batch: 6412

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	933.3		mg/Kg		90	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	878.7		mg/Kg		88	70 - 130	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	101		70 - 130									
o-Terphenyl	97		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6323/1-A

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			08/12/21 21:06	1		

Lab Sample ID: LCS 880-6323/2-A

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	258.0		mg/Kg		103	90 - 110			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-6323/3-A

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	257.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-1081-4 MS

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: PH02A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	26.0		250	269.5		mg/Kg		97	90 - 110		

Lab Sample ID: 890-1081-4 MSD

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: PH02A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26.0		250	269.8		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

GC VOA

Prep Batch: 6333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6333/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-1	PH01	Total/NA	Solid	5035	
890-1081-2	PH01A	Total/NA	Solid	5035	
890-1081-3	PH02	Total/NA	Solid	5035	
890-1081-4	PH02A	Total/NA	Solid	5035	
890-1081-5	PH03	Total/NA	Solid	5035	
890-1081-6	PH03A	Total/NA	Solid	5035	
MB 880-6355/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6355/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6355/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1073-A-2-D MS	Matrix Spike	Total/NA	Solid	5035	
890-1073-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-1	PH01	Total/NA	Solid	8021B	6355
890-1081-2	PH01A	Total/NA	Solid	8021B	6355
890-1081-3	PH02	Total/NA	Solid	8021B	6355
890-1081-4	PH02A	Total/NA	Solid	8021B	6355
890-1081-5	PH03	Total/NA	Solid	8021B	6355
890-1081-6	PH03A	Total/NA	Solid	8021B	6355
MB 880-6333/5-A	Method Blank	Total/NA	Solid	8021B	6333
MB 880-6355/5-A	Method Blank	Total/NA	Solid	8021B	6355
LCS 880-6355/1-A	Lab Control Sample	Total/NA	Solid	8021B	6355
LCSD 880-6355/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6355
890-1073-A-2-D MS	Matrix Spike	Total/NA	Solid	8021B	6355
890-1073-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6355

Prep Batch: 6372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6372/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-7	PH04	Total/NA	Solid	5035	
890-1081-8	PH04A	Total/NA	Solid	5035	
MB 880-6377/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6377/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6377/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1081-7 MSD	PH04	Total/NA	Solid	5035	

Analysis Batch: 6378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-7	PH04	Total/NA	Solid	8021B	6377
890-1081-8	PH04A	Total/NA	Solid	8021B	6377
MB 880-6372/5-A	Method Blank	Total/NA	Solid	8021B	6372
MB 880-6377/5-A	Method Blank	Total/NA	Solid	8021B	6377
LCS 880-6377/1-A	Lab Control Sample	Total/NA	Solid	8021B	6377

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

GC VOA (Continued)

Analysis Batch: 6378 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-6377/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6377
890-1081-7 MS	PH04	Total/NA	Solid	8021B	
890-1081-7 MSD	PH04	Total/NA	Solid	8021B	6377

GC Semi VOA

Prep Batch: 6410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-1	PH01	Total/NA	Solid	8015NM Prep	
890-1081-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1081-3	PH02	Total/NA	Solid	8015NM Prep	
890-1081-4	PH02A	Total/NA	Solid	8015NM Prep	
890-1081-5	PH03	Total/NA	Solid	8015NM Prep	
890-1081-6	PH03A	Total/NA	Solid	8015NM Prep	
890-1081-7	PH04	Total/NA	Solid	8015NM Prep	
MB 880-6410/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6410/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1078-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1078-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 6412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-8	PH04A	Total/NA	Solid	8015NM Prep	
MB 880-6412/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6412/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6412/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1081-8 MS	PH04A	Total/NA	Solid	8015NM Prep	
890-1081-8 MSD	PH04A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-1	PH01	Total/NA	Solid	8015B NM	6410
890-1081-2	PH01A	Total/NA	Solid	8015B NM	6410
890-1081-3	PH02	Total/NA	Solid	8015B NM	6410
890-1081-4	PH02A	Total/NA	Solid	8015B NM	6410
890-1081-5	PH03	Total/NA	Solid	8015B NM	6410
890-1081-6	PH03A	Total/NA	Solid	8015B NM	6410
890-1081-7	PH04	Total/NA	Solid	8015B NM	6410
MB 880-6410/1-A	Method Blank	Total/NA	Solid	8015B NM	6410
LCS 880-6410/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6410
LCSD 880-6410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6410
890-1078-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	6410
890-1078-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6410

Analysis Batch: 6425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-8	PH04A	Total/NA	Solid	8015B NM	6412
MB 880-6412/1-A	Method Blank	Total/NA	Solid	8015B NM	6412
LCS 880-6412/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6412
LCSD 880-6412/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6412

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

GC Semi VOA (Continued)

Analysis Batch: 6425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-8 MS	PH04A	Total/NA	Solid	8015B NM	6412
890-1081-8 MSD	PH04A	Total/NA	Solid	8015B NM	6412

HPLC/IC

Leach Batch: 6323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-1	PH01	Soluble	Solid	DI Leach	
890-1081-2	PH01A	Soluble	Solid	DI Leach	
890-1081-3	PH02	Soluble	Solid	DI Leach	
890-1081-4	PH02A	Soluble	Solid	DI Leach	
890-1081-5	PH03	Soluble	Solid	DI Leach	
890-1081-6	PH03A	Soluble	Solid	DI Leach	
890-1081-7	PH04	Soluble	Solid	DI Leach	
890-1081-8	PH04A	Soluble	Solid	DI Leach	
MB 880-6323/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6323/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6323/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1081-4 MS	PH02A	Soluble	Solid	DI Leach	
890-1081-4 MSD	PH02A	Soluble	Solid	DI Leach	

Analysis Batch: 6438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1081-1	PH01	Soluble	Solid	300.0	6323
890-1081-2	PH01A	Soluble	Solid	300.0	6323
890-1081-3	PH02	Soluble	Solid	300.0	6323
890-1081-4	PH02A	Soluble	Solid	300.0	6323
890-1081-5	PH03	Soluble	Solid	300.0	6323
890-1081-6	PH03A	Soluble	Solid	300.0	6323
890-1081-7	PH04	Soluble	Solid	300.0	6323
890-1081-8	PH04A	Soluble	Solid	300.0	6323
MB 880-6323/1-A	Method Blank	Soluble	Solid	300.0	6323
LCS 880-6323/2-A	Lab Control Sample	Soluble	Solid	300.0	6323
LCSD 880-6323/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6323
890-1081-4 MS	PH02A	Soluble	Solid	300.0	6323
890-1081-4 MSD	PH02A	Soluble	Solid	300.0	6323

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Client Sample ID: PH01

Lab Sample ID: 890-1081-1

Date Collected: 08/09/21 11:10

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6355	08/11/21 09:15	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/12/21 05:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			6410	08/11/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6423	08/12/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 22:25	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-1081-2

Date Collected: 08/09/21 11:11

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6355	08/11/21 09:15	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/12/21 06:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			6410	08/11/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6423	08/12/21 18:15	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 22:30	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-1081-3

Date Collected: 08/09/21 11:13

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6355	08/11/21 09:15	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/12/21 06:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			6410	08/11/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6423	08/12/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 22:36	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-1081-4

Date Collected: 08/09/21 11:15

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6355	08/11/21 09:15	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/12/21 06:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			6410	08/11/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6423	08/12/21 18:56	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 22:41	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Client Sample ID: PH03

Lab Sample ID: 890-1081-5

Date Collected: 08/09/21 11:18

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6355	08/11/21 09:15	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/12/21 07:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			6410	08/11/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6423	08/12/21 19:16	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 22:58	CH	XEN MID

Client Sample ID: PH03A

Lab Sample ID: 890-1081-6

Date Collected: 08/09/21 11:19

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6355	08/11/21 09:15	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/12/21 07:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			6410	08/11/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6423	08/12/21 19:36	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 23:04	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-1081-7

Date Collected: 08/09/21 11:21

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6377	08/11/21 09:54	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/12/21 02:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			6410	08/11/21 15:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6423	08/12/21 19:57	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 23:21	CH	XEN MID

Client Sample ID: PH04A

Lab Sample ID: 890-1081-8

Date Collected: 08/09/21 11:22

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6377	08/11/21 09:54	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/12/21 03:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 12:05	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 23:26	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 430

Job ID: 890-1081-1
SDG: 31403236.009.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1081-1	PH01	Solid	08/09/21 11:10	08/09/21 17:00	- 1
890-1081-2	PH01A	Solid	08/09/21 11:11	08/09/21 17:00	- 2
890-1081-3	PH02	Solid	08/09/21 11:13	08/09/21 17:00	- 1
890-1081-4	PH02A	Solid	08/09/21 11:15	08/09/21 17:00	- 2
890-1081-5	PH03	Solid	08/09/21 11:18	08/09/21 17:00	- 1
890-1081-6	PH03A	Solid	08/09/21 11:19	08/09/21 17:00	- 2
890-1081-7	PH04	Solid	08/09/21 11:21	08/09/21 17:00	- 1
890-1081-8	PH04A	Solid	08/09/21 11:22	08/09/21 17:00	- 2



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

Chain of Custody

Work Order No: _____

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-Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littell
Company Name:	WSP Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM, 88220
Phone:	(432) 236-3849	Email:	Elliot.Lee@wsp.com, Kait.Jennings@wsp.com

Program: UST/PST ☐ RP ☐ Rowfields ☐ RC ☐ Spentfund ☐ State of Project: Reporting Level II ☐ Level III ☐ T/UST ☐ RP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____		Work Order Comments
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Project Name:	PLU 430	Turn Around	☒	ANALYSIS REQUEST		Work Order Notes
Project Number:	31403236.009.0129	Routine	☒			Cost Center : 1140861001 Incident # NAPP2113830327
P.O. Number:		Flush:				
Sampler's Name:	Elliot Lee	Due Date:				

SAMPLE RECEIPT		Temp Blank:	☒ Yes	No	Wet Ice:	☒ Yes	No
Temperature (°C):	54.8/46	Thermometer ID	FV2-C07				
Received Inact:	☒ Yes	No					
Cooler Custody Seals:	☒ Yes	No					
Sample Custody Seals:	☒ Yes	No					
Total Containers:		-0.7					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	890-1081 Chain of Custody										Sample Comments
PH01	S	8/9/2021	11:10	1'	1	X	X	X									DISCRETE		
PH01A	S	8/9/2021	11:11	2'	1	X	X	X									DISCRETE		
PH02	S	8/9/2021	11:13	1'	1	X	X	X									DISCRETE		
PH02A	S	8/9/2021	11:15	2'	1	X	X	X									DISCRETE		
PH03	S	8/9/2021	11:18	1'	1	X	X	X									DISCRETE		
PH03A	S	8/9/2021	11:19	2'	1	X	X	X									DISCRETE		
PH04	S	8/9/2021	11:21	1'	1	X	X	X									DISCRETE		
PH04A	S	8/9/2021	11:22	2'	1	X	X	X									DISCRETE		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	8/9/21 5:07			



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 291-1111
Hobbs, NM (575-392-7550)

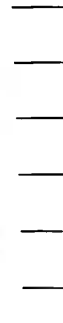
Chain of Custody

Work Order No:

Page 1 of 1
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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM, 88220
Phone:	(432) 236-3849	Email:	Elliot.Lee@wsp.com, Kalei.Jennings@wsp.com

Work Order Comments									
Program:	UST/ST	☐ RP	☐ Growfields	☐ RC	☐ \$perfund	☐			
State of Project:									
Reporting Level:	Level II	☐	Level III	☐	LT/UST	☐	RP	☐	Level IV
Deliverables:	EDD	☐	Adapt	☐	Other:				

Project Name:	PLU 430	Turn Around	ANALYSIS REQUEST	 890-1081 Chain of Custody	Work Order Notes Cost Center : 1140861001 Incident # NAPP2113830327
Project Number:	31403236.009.0129	Routine ☒			
P.O. Number:		Rush:			
Sampler's Name:	Elliot Lee				
Due Date:					
SAMPLE RECEIPT					
Temperature (°C):	64.8/46	Temp Blank: ☒ Yes ☐ No	Thermometer ID		
Received intact:	☒ Yes ☐ No				
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No	N/A	Total Containers:		
Number of Containers					
PA 8015)					
EPA 0=8021)					
le (EPA 300.0)					
TAT starts the day received by the lab, if received by 4:30pm					

[illegible]

Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	200.8 / 6020:
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn		
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

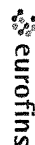
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1			8/9/2015:07			
2						
3						
4						
5						
6						

Revised Date 05/11/18 Rev 2018

Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)										Lab P.M. Kramer, Jessica		Carrier Tracking No(s)		COC No. 890-343 1																																													
Client Contact: Shipping/Receiving										Phone:		E-Mail: jessica.kramer@eurofinset.com		State of Origin New Mexico		Page 1 of 1																																											
Company: Eurofins Xenco										Address 1211 W Florida Ave, Midland TX, 79701		Due Date Requested 8/13/2021		TAT Requested (days)		Job #: 890-1081-1																																											
Phone: 432-704-5440(Tel)										PO #:		Project #: 89000004		Project Name PLU 430		Preservation Codes: A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. - Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. - AsNaO2 P. - Na2O4S Q. - Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. pH 4.5 Z. other (Specify)																																											
Site: SSOW#										Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015MOD_NM/8015NM_S_Prep Full TPH		300_ORGFWM_28D/DI_LEACH Chloride		8021B/5035FP_Calc BTEX																																									
Sample Identification - Client ID (Lab ID)										Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastefoil, BI=Tissue, A=oil)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015MOD_NM/8015NM_S_Prep Full TPH		300_ORGFWM_28D/DI_LEACH Chloride		8021B/5035FP_Calc BTEX		Total Number of containers		Special Instructions/Note:																													
PH01 (890-1081-1)										8/9/21		11 10		Solid				X		X		X		1																																			
PH01A (890-1081-2)										8/9/21		11 11		Solid				X		X		X		1																																			
PH02 (890-1081-3)										8/9/21		11 13		Solid				X		X		X		1																																			
PH02A (890-1081-4)										8/9/21		11 15		Solid				X		X		X		1																																			
PH03 (890-1081-5)										8/9/21		11 18		Solid				X		X		X		1																																			
PH03A (890-1081-6)										8/9/21		11 19		Solid				X		X		X		1																																			
PH04 (890-1081-7)										8/9/21		11 21		Solid				X		X		X		1																																			
PH04A (890-1081-8)										8/9/21		11 22		Solid				X		X		X		1																																			
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																																																											
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																	
Unconfirmed										☐ Return To Client										☐ Disposal By Lab										☐ Archive For _____ Months																													
Deliverable Requested I II III, IV Other (specify)										Primary Deliverable Rank 2										Special Instructions/QC Requirements																																							
Empty Kit Relinquished by										Date										Time										Method of Shipment:																													
Relinquished by										Date/Time										Company										Received by										Date/Time										Company									
Relinquished by										Date/Time										Company										Received by										Date/Time										Company									
Relinquished by										Date/Time										Company										Received by										Date/Time										Company									
Custody Seals Intact.										Custody Seal No										Cooler Temperature(s) °C and Other Remarks																																							
Δ Yes Δ No																																																											

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1081-1

SDG Number: 31403236.009.0129

Login Number: 1081

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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: 890-1081-1

SDG Number: 31403236.009.0129

Login Number: 1081

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 08/11/21 11:17 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1082-1

Laboratory Sample Delivery Group: 31403236.009.0129

Client Project/Site: PLU 430H

For:

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

Attn: Dan Moir

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
8/13/2021 5:58:13 PM

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

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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.

Client: WSP USA Inc.
Project/Site: PLU 430H

Laboratory Job ID: 890-1082-1
SDG: 31403236.009.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Qualifiers

GC VOA

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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Job ID: 890-1082-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1082-1

Receipt

The samples were received on 8/9/2021 5:00 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 4.6°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS01

Lab Sample ID: 890-1082-1

Date Collected: 08/09/21 13:07

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 22:10	1
Toluene	0.00201		0.00200	mg/Kg		08/11/21 09:46	08/11/21 22:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 22:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 22:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 22:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 22:10	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/11/21 09:46	08/11/21 22:10	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/11/21 09:46	08/11/21 22:10	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		08/11/21 15:28	08/12/21 13:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 13:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 13:06	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/11/21 15:28	08/12/21 13:06	1
o-Terphenyl	114		70 - 130	08/11/21 15:28	08/12/21 13:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	932		5.05	mg/Kg			08/12/21 23:32	1

Client Sample ID: FS02

Lab Sample ID: 890-1082-2

Date Collected: 08/09/21 13:15

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 22:30	1
Toluene	0.00260		0.00200	mg/Kg		08/11/21 09:46	08/11/21 22:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 22:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/11/21 09:46	08/11/21 22:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 22:30	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/11/21 09:46	08/11/21 22:30	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/11/21 09:46	08/11/21 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/11/21 09:46	08/11/21 22:30	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/11/21 09:46	08/11/21 22:30	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	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 13:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS02

Lab Sample ID: 890-1082-2

Date Collected: 08/09/21 13:15

Matrix: Solid

Date Received: 08/09/21 17:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 13:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 13:26	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 13:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			08/11/21 15:28	08/12/21 13:26	1
o-Terphenyl	116		70 - 130			08/11/21 15:28	08/12/21 13:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		4.98	mg/Kg			08/12/21 23:37	1

Client Sample ID: FS03

Lab Sample ID: 890-1082-3

Date Collected: 08/09/21 13:25

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		08/11/21 09:19	08/12/21 01:25	1
Toluene	0.00265		0.00199	mg/Kg		08/11/21 09:19	08/12/21 01:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 01:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 01:25	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		08/11/21 09:19	08/12/21 01:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 01:25	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 01:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			08/11/21 09:19	08/12/21 01:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130			08/11/21 09:19	08/12/21 01:25	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		08/11/21 15:28	08/12/21 13:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 13:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 13:47	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 13:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/11/21 15:28	08/12/21 13:47	1
o-Terphenyl	105		70 - 130			08/11/21 15:28	08/12/21 13:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830		24.8	mg/Kg			08/12/21 23:43	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS04

Lab Sample ID: 890-1082-4

Date Collected: 08/09/21 13:44

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 01:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 01:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 01:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 01:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 01:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 01:46	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/11/21 09:19	08/12/21 01:46	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/11/21 09:19	08/12/21 01:46	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	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 14:08	1
Diesel Range Organics (Over C10-C28)	73.5		49.8	mg/Kg		08/11/21 15:28	08/12/21 14:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 14:08	1
Total TPH	73.5		49.8	mg/Kg		08/11/21 15:28	08/12/21 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/11/21 15:28	08/12/21 14:08	1
o-Terphenyl	114		70 - 130	08/11/21 15:28	08/12/21 14:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2330		25.3	mg/Kg			08/12/21 23:49	5

Client Sample ID: FS05

Lab Sample ID: 890-1082-5

Date Collected: 08/09/21 13:48

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:19	08/12/21 02:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:19	08/12/21 02:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:19	08/12/21 02:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/11/21 09:19	08/12/21 02:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:19	08/12/21 02:06	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/11/21 09:19	08/12/21 02:06	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/11/21 09:19	08/12/21 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/11/21 09:19	08/12/21 02:06	1
1,4-Difluorobenzene (Surr)	79		70 - 130	08/11/21 09:19	08/12/21 02:06	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		08/11/21 15:28	08/12/21 14:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS05

Lab Sample ID: 890-1082-5

Date Collected: 08/09/21 13:48

Matrix: Solid

Date Received: 08/09/21 17:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 14:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 14:29	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			08/11/21 15:28	08/12/21 14:29	1
o-Terphenyl	124		70 - 130			08/11/21 15:28	08/12/21 14:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4230		25.1	mg/Kg			08/12/21 23:54	5

Client Sample ID: FS06

Lab Sample ID: 890-1082-6

Date Collected: 08/09/21 13:51

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:19	08/12/21 02:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:19	08/12/21 02:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:19	08/12/21 02:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 09:19	08/12/21 02:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:19	08/12/21 02:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 09:19	08/12/21 02:27	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 09:19	08/12/21 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			08/11/21 09:19	08/12/21 02:27	1
1,4-Difluorobenzene (Surr)	103		70 - 130			08/11/21 09:19	08/12/21 02:27	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	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 14:50	1
Diesel Range Organics (Over C10-C28)	98.4		49.8	mg/Kg		08/11/21 15:28	08/12/21 14:50	1
Oil Range Organics (Over C28-C36)	102		49.8	mg/Kg		08/11/21 15:28	08/12/21 14:50	1
Total TPH	200		49.8	mg/Kg		08/11/21 15:28	08/12/21 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			08/11/21 15:28	08/12/21 14:50	1
o-Terphenyl	120		70 - 130			08/11/21 15:28	08/12/21 14:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670		25.3	mg/Kg			08/12/21 17:46	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS07

Lab Sample ID: 890-1082-7

Date Collected: 08/09/21 14:17

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 02:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 02:48	1
Ethylbenzene	0.00261		0.00199	mg/Kg		08/11/21 09:19	08/12/21 02:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 02:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 02:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 02:48	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	08/11/21 09:19	08/12/21 02:48	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/11/21 09:19	08/12/21 02:48	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		08/11/21 15:28	08/12/21 15:11	1
Diesel Range Organics (Over C10-C28)	191		49.9	mg/Kg		08/11/21 15:28	08/12/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 15:11	1
Total TPH	191		49.9	mg/Kg		08/11/21 15:28	08/12/21 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/11/21 15:28	08/12/21 15:11	1
o-Terphenyl	112		70 - 130	08/11/21 15:28	08/12/21 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2850		24.9	mg/Kg			08/12/21 18:03	5

Client Sample ID: FS08

Lab Sample ID: 890-1082-8

Date Collected: 08/09/21 14:19

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:19	08/12/21 03:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:19	08/12/21 03:08	1
Ethylbenzene	0.00263		0.00198	mg/Kg		08/11/21 09:19	08/12/21 03:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/11/21 09:19	08/12/21 03:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:19	08/12/21 03:08	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/11/21 09:19	08/12/21 03:08	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		08/11/21 09:19	08/12/21 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/11/21 09:19	08/12/21 03:08	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/11/21 09:19	08/12/21 03:08	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		08/11/21 15:28	08/12/21 15:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS08

Lab Sample ID: 890-1082-8

Date Collected: 08/09/21 14:19

Matrix: Solid

Date Received: 08/09/21 17:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 15:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 15:52	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 15:28	08/12/21 15:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			08/11/21 15:28	08/12/21 15:52	1
o-Terphenyl	116		70 - 130			08/11/21 15:28	08/12/21 15:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	846		4.95	mg/Kg			08/12/21 18:08	1

Client Sample ID: FS09

Lab Sample ID: 890-1082-9

Date Collected: 08/09/21 14:23

Matrix: Solid

Date Received: 08/09/21 17:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 03:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 03:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 03:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 03:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:19	08/12/21 03:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 03:29	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:19	08/12/21 03:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			08/11/21 09:19	08/12/21 03:29	1
1,4-Difluorobenzene (Surr)	92		70 - 130			08/11/21 09:19	08/12/21 03:29	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	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 16:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 16:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 16:13	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 15:28	08/12/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			08/11/21 15:28	08/12/21 16:13	1
o-Terphenyl	122		70 - 130			08/11/21 15:28	08/12/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3910		25.0	mg/Kg			08/12/21 18:14	5

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
890-1082-1	FS01	115	106				
890-1082-2	FS02	117	105				
890-1082-3	FS03	124	97				
890-1082-3 MS	FS03	108	94				
890-1082-3 MSD	FS03	114	106				
890-1082-4	FS04	101	81				
890-1082-5	FS05	118	79				
890-1082-6	FS06	127	103				
890-1082-7	FS07	141 S1+	116				
890-1082-8	FS08	113	106				
890-1082-9	FS09	107	92				
LCS 880-6357/1-A	Lab Control Sample	106	76				
LCS 880-6372/1-A	Lab Control Sample	106	96				
LCSD 880-6357/2-A	Lab Control Sample Dup	102	80				
LCSD 880-6372/2-A	Lab Control Sample Dup	104	98				
MB 880-6357/5-A	Method Blank	115	101				
MB 880-6372/5-A	Method Blank	119	105				
MB 880-6379/5-A	Method Blank	97	105				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB1	DFBZ1						
Lab Sample ID	Client Sample ID								
890-1083-A-1-B MS	Matrix Spike								
890-1083-A-1-C MSD	Matrix Spike Duplicate								
Surrogate Legend									
BFB = 4-Bromofluorobenzene (Surr)									
DFBZ = 1,4-Difluorobenzene (Surr)									

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-1081-A-8-D MS	Matrix Spike	98	99				
890-1081-A-8-E MSD	Matrix Spike Duplicate	101	97				
890-1082-1	FS01	105	114				
890-1082-2	FS02	105	116				
890-1082-3	FS03	94	105				
890-1082-4	FS04	105	114				
890-1082-5	FS05	111	124				
890-1082-6	FS06	105	120				
890-1082-7	FS07	98	112				

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1082-8	FS08	100	116
890-1082-9	FS09	101	122
LCS 880-6412/2-A	Lab Control Sample	116	134 S1+
LCSD 880-6412/3-A	Lab Control Sample Dup	114	126
MB 880-6412/1-A	Method Blank	100	127

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6357/5-A

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6357

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:19	08/12/21 01:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:19	08/12/21 01:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:19	08/12/21 01:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 09:19	08/12/21 01:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:19	08/12/21 01:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 09:19	08/12/21 01:04	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 09:19	08/12/21 01:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/11/21 09:19	08/12/21 01:04	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/11/21 09:19	08/12/21 01:04	1

Lab Sample ID: LCS 880-6357/1-A

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09136		mg/Kg		91	70 - 130
Toluene	0.100	0.09883		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1126		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09877		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: LCSD 880-6357/2-A

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6357

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08213		mg/Kg		82	70 - 130	11	35
Toluene	0.100	0.09720		mg/Kg		97	70 - 130	2	35
Ethylbenzene	0.100	0.09621		mg/Kg		96	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1824		mg/Kg		91	70 - 130	8	35
o-Xylene	0.100	0.09134		mg/Kg		91	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 890-1082-3 MS

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: FS03

Prep Type: Total/NA

Prep Batch: 6357

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0998	0.07895		mg/Kg		79	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

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

Lab Sample ID: 890-1082-3 MS

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: FS03

Prep Type: Total/NA

Prep Batch: 6357

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.00265		0.0998	0.09241		mg/Kg		90	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.08548		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1502		mg/Kg		75	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.06808	F1	mg/Kg		68	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		70 - 130						
1,4-Difluorobenzene (Surr)	94		70 - 130						

Lab Sample ID: 890-1082-3 MSD

Matrix: Solid

Analysis Batch: 6386

Client Sample ID: FS03

Prep Type: Total/NA

Prep Batch: 6357

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.06260	F1	mg/Kg		63	70 - 130	23	35
Toluene	0.00265		0.0990	0.09657		mg/Kg		95	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.0990	0.09443		mg/Kg		94	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1708		mg/Kg		86	70 - 130	13	35
o-Xylene	<0.00199	U F1	0.0990	0.07932		mg/Kg		80	70 - 130	15	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	114		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

Lab Sample ID: MB 880-6372/5-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 09:46	08/11/21 14:44	1
MB MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	119		70 - 130	08/11/21 09:46	08/11/21 14:44	1		
1,4-Difluorobenzene (Surr)	105		70 - 130	08/11/21 09:46	08/11/21 14:44	1		

Lab Sample ID: LCS 880-6372/1-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08662		mg/Kg		87	70 - 130
Toluene	0.100	0.08557		mg/Kg		86	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

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

Lab Sample ID: LCS 880-6372/1-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.08852		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1866		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09283		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-6372/2-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6372

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09891		mg/Kg		99	70 - 130	13	35
Toluene	0.100	0.08932		mg/Kg		89	70 - 130	4	35
Ethylbenzene	0.100	0.09118		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1903		mg/Kg		95	70 - 130	2	35
o-Xylene	0.100	0.09464		mg/Kg		95	70 - 130	2	35

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

Lab Sample ID: 890-1083-A-1-B MS

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.0998	0.009146		mg/Kg			
Toluene			0.0998	<0.00200	U	mg/Kg			
Ethylbenzene			0.0998	<0.00200	U	mg/Kg			
m-Xylene & p-Xylene			0.200	0.009463		mg/Kg			
o-Xylene			0.0998	0.002881		mg/Kg			

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

Lab Sample ID: 890-1083-A-1-C MSD

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.101	0.01367		mg/Kg					
Toluene			0.101	0.1755		mg/Kg					
Ethylbenzene			0.101	<0.00202	U	mg/Kg					
m-Xylene & p-Xylene			0.202	0.03551		mg/Kg					
o-Xylene			0.101	<0.00202	U	mg/Kg					

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-6379/5-A
Matrix: Solid
Analysis Batch: 6386

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6379

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:05	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 10:08	08/11/21 14:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/11/21 10:08	08/11/21 14:05	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/11/21 10:08	08/11/21 14:05	1

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

Lab Sample ID: MB 880-6412/1-A
Matrix: Solid
Analysis Batch: 6425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6412

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 15:28	08/12/21 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/11/21 15:28	08/12/21 11:04	1
o-Terphenyl	127		70 - 130	08/11/21 15:28	08/12/21 11:04	1

Lab Sample ID: LCS 880-6412/2-A
Matrix: Solid
Analysis Batch: 6425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.9		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1080		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	134	S1+	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

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

Lab Sample ID: LCSD 880-6412/3-A

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	966.1		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	126		70 - 130						

Lab Sample ID: 890-1081-A-8-D MS

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	898.9		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	868.7		mg/Kg		87	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: 890-1081-A-8-E MSD

Matrix: Solid

Analysis Batch: 6425

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	933.3		mg/Kg		90	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	878.7		mg/Kg		88	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6323/1-A

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/12/21 21:06	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-6323/2-A

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.0		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6323/3-A

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	257.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-1081-A-4-B MS

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	26.0		250	269.5		mg/Kg		97	90 - 110

Lab Sample ID: 890-1081-A-4-C MSD

Matrix: Solid

Analysis Batch: 6438

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26.0		250	269.8		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-6324/1-A

Matrix: Solid

Analysis Batch: 6439

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/12/21 17:30	1

Lab Sample ID: LCS 880-6324/2-A

Matrix: Solid

Analysis Batch: 6439

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.2		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6324/3-A

Matrix: Solid

Analysis Batch: 6439

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-1082-6 MS

Matrix: Solid

Analysis Batch: 6439

Client Sample ID: FS06

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1670		1260	3055		mg/Kg		109	90 - 110

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1082-6 MSD							Client Sample ID: FS06					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 6439												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	1670		1260	3013		mg/Kg		106	90 - 110	1	20	

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

GC VOA

Prep Batch: 6357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-3	FS03	Total/NA	Solid	5035	
890-1082-4	FS04	Total/NA	Solid	5035	
890-1082-5	FS05	Total/NA	Solid	5035	
890-1082-6	FS06	Total/NA	Solid	5035	
890-1082-7	FS07	Total/NA	Solid	5035	
890-1082-8	FS08	Total/NA	Solid	5035	
890-1082-9	FS09	Total/NA	Solid	5035	
MB 880-6357/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6357/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6357/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1082-3 MS	FS03	Total/NA	Solid	5035	
890-1082-3 MSD	FS03	Total/NA	Solid	5035	

Prep Batch: 6372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-1	FS01	Total/NA	Solid	5035	
890-1082-2	FS02	Total/NA	Solid	5035	
MB 880-6372/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6372/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6372/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1083-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1083-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-1	FS01	Total/NA	Solid	8021B	6372
890-1082-2	FS02	Total/NA	Solid	8021B	6372
MB 880-6372/5-A	Method Blank	Total/NA	Solid	8021B	6372
LCS 880-6372/1-A	Lab Control Sample	Total/NA	Solid	8021B	6372
LCSD 880-6372/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6372
890-1083-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	6372
890-1083-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6372

Prep Batch: 6379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6379/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 6386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-3	FS03	Total/NA	Solid	8021B	6357
890-1082-4	FS04	Total/NA	Solid	8021B	6357
890-1082-5	FS05	Total/NA	Solid	8021B	6357
890-1082-6	FS06	Total/NA	Solid	8021B	6357
890-1082-7	FS07	Total/NA	Solid	8021B	6357
890-1082-8	FS08	Total/NA	Solid	8021B	6357
890-1082-9	FS09	Total/NA	Solid	8021B	6357
MB 880-6357/5-A	Method Blank	Total/NA	Solid	8021B	6357
MB 880-6379/5-A	Method Blank	Total/NA	Solid	8021B	6379
LCS 880-6357/1-A	Lab Control Sample	Total/NA	Solid	8021B	6357
LCSD 880-6357/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6357
890-1082-3 MS	FS03	Total/NA	Solid	8021B	6357

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

GC VOA (Continued)

Analysis Batch: 6386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-3 MSD	FS03	Total/NA	Solid	8021B	6357

GC Semi VOA

Prep Batch: 6412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-1	FS01	Total/NA	Solid	8015NM Prep	
890-1082-2	FS02	Total/NA	Solid	8015NM Prep	
890-1082-3	FS03	Total/NA	Solid	8015NM Prep	
890-1082-4	FS04	Total/NA	Solid	8015NM Prep	
890-1082-5	FS05	Total/NA	Solid	8015NM Prep	
890-1082-6	FS06	Total/NA	Solid	8015NM Prep	
890-1082-7	FS07	Total/NA	Solid	8015NM Prep	
890-1082-8	FS08	Total/NA	Solid	8015NM Prep	
890-1082-9	FS09	Total/NA	Solid	8015NM Prep	
MB 880-6412/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6412/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6412/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1081-A-8-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1081-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-1	FS01	Total/NA	Solid	8015B NM	6412
890-1082-2	FS02	Total/NA	Solid	8015B NM	6412
890-1082-3	FS03	Total/NA	Solid	8015B NM	6412
890-1082-4	FS04	Total/NA	Solid	8015B NM	6412
890-1082-5	FS05	Total/NA	Solid	8015B NM	6412
890-1082-6	FS06	Total/NA	Solid	8015B NM	6412
890-1082-7	FS07	Total/NA	Solid	8015B NM	6412
890-1082-8	FS08	Total/NA	Solid	8015B NM	6412
890-1082-9	FS09	Total/NA	Solid	8015B NM	6412
MB 880-6412/1-A	Method Blank	Total/NA	Solid	8015B NM	6412
LCS 880-6412/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6412
LCSD 880-6412/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6412
890-1081-A-8-D MS	Matrix Spike	Total/NA	Solid	8015B NM	6412
890-1081-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6412

HPLC/IC

Leach Batch: 6323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-1	FS01	Soluble	Solid	DI Leach	
890-1082-2	FS02	Soluble	Solid	DI Leach	
890-1082-3	FS03	Soluble	Solid	DI Leach	
890-1082-4	FS04	Soluble	Solid	DI Leach	
890-1082-5	FS05	Soluble	Solid	DI Leach	
MB 880-6323/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6323/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6323/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1081-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1081-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

HPLC/IC

Leach Batch: 6324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-6	FS06	Soluble	Solid	DI Leach	
890-1082-7	FS07	Soluble	Solid	DI Leach	
890-1082-8	FS08	Soluble	Solid	DI Leach	
890-1082-9	FS09	Soluble	Solid	DI Leach	
MB 880-6324/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6324/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6324/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1082-6 MS	FS06	Soluble	Solid	DI Leach	
890-1082-6 MSD	FS06	Soluble	Solid	DI Leach	

Analysis Batch: 6438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-1	FS01	Soluble	Solid	300.0	6323
890-1082-2	FS02	Soluble	Solid	300.0	6323
890-1082-3	FS03	Soluble	Solid	300.0	6323
890-1082-4	FS04	Soluble	Solid	300.0	6323
890-1082-5	FS05	Soluble	Solid	300.0	6323
MB 880-6323/1-A	Method Blank	Soluble	Solid	300.0	6323
LCS 880-6323/2-A	Lab Control Sample	Soluble	Solid	300.0	6323
LCSD 880-6323/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6323
890-1081-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	6323
890-1081-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6323

Analysis Batch: 6439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1082-6	FS06	Soluble	Solid	300.0	6324
890-1082-7	FS07	Soluble	Solid	300.0	6324
890-1082-8	FS08	Soluble	Solid	300.0	6324
890-1082-9	FS09	Soluble	Solid	300.0	6324
MB 880-6324/1-A	Method Blank	Soluble	Solid	300.0	6324
LCS 880-6324/2-A	Lab Control Sample	Soluble	Solid	300.0	6324
LCSD 880-6324/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6324
890-1082-6 MS	FS06	Soluble	Solid	300.0	6324
890-1082-6 MSD	FS06	Soluble	Solid	300.0	6324

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS01

Lab Sample ID: 890-1082-1

Date Collected: 08/09/21 13:07

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 22:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 13:06	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 23:32	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-1082-2

Date Collected: 08/09/21 13:15

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 22:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 13:26	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	6438	08/12/21 23:37	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-1082-3

Date Collected: 08/09/21 13:25

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6357	08/11/21 09:19	KL	XEN MID
Total/NA	Analysis	8021B		1	6386	08/12/21 01:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 13:47	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		5	6438	08/12/21 23:43	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-1082-4

Date Collected: 08/09/21 13:44

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6357	08/11/21 09:19	KL	XEN MID
Total/NA	Analysis	8021B		1	6386	08/12/21 01:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		5	6438	08/12/21 23:49	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS05

Lab Sample ID: 890-1082-5

Date Collected: 08/09/21 13:48

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6357	08/11/21 09:19	KL	XEN MID
Total/NA	Analysis	8021B		1	6386	08/12/21 02:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 14:29	AJ	XEN MID
Soluble	Leach	DI Leach			6323	08/10/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		5	6438	08/12/21 23:54	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-1082-6

Date Collected: 08/09/21 13:51

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6357	08/11/21 09:19	KL	XEN MID
Total/NA	Analysis	8021B		1	6386	08/12/21 02:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 14:50	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		5	6439	08/12/21 17:46	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-1082-7

Date Collected: 08/09/21 14:17

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6357	08/11/21 09:19	KL	XEN MID
Total/NA	Analysis	8021B		1	6386	08/12/21 02:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		5	6439	08/12/21 18:03	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-1082-8

Date Collected: 08/09/21 14:19

Matrix: Solid

Date Received: 08/09/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6357	08/11/21 09:19	KL	XEN MID
Total/NA	Analysis	8021B		1	6386	08/12/21 03:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 15:52	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 18:08	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Client Sample ID: FS09
Date Collected: 08/09/21 14:23
Date Received: 08/09/21 17:00

Lab Sample ID: 890-1082-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6357	08/11/21 09:19	KL	XEN MID
Total/NA	Analysis	8021B		1	6386	08/12/21 03:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			6412	08/11/21 15:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6425	08/12/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		5	6439	08/12/21 18:14	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.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1082-1
SDG: 31403236.009.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1082-1	FS01	Solid	08/09/21 13:07	08/09/21 17:00
890-1082-2	FS02	Solid	08/09/21 13:15	08/09/21 17:00
890-1082-3	FS03	Solid	08/09/21 13:25	08/09/21 17:00
890-1082-4	FS04	Solid	08/09/21 13:44	08/09/21 17:00
890-1082-5	FS05	Solid	08/09/21 13:48	08/09/21 17:00
890-1082-6	FS06	Solid	08/09/21 13:51	08/09/21 17:00
890-1082-7	FS07	Solid	08/09/21 14:17	08/09/21 17:00
890-1082-8	FS08	Solid	08/09/21 14:19	08/09/21 17:00
890-1082-9	FS09	Solid	08/09/21 14:23	08/09/21 17:00



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

Chain of Custody

Work Order No: _____

Project Manager:	Kalei Jennings	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	payton.benner@wsp.com, kalei.jennings@wsp.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:	PLU 430H	Turn Around	
Project Number:	31403236.009.0129	Routine ☒	
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No
Temperature (°C):	48/4.6	Thermometer ID
Received Intact:	Yes ☒ No ☐	Correction Factor:
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Total Containers:
Sample Custody Seals:	Yes ☒ No ☐ N/A	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
FS01	S	8/9/2021	1307	1	1	X	X	X		
FS02	S	8/9/2021	1315	1	1	X	X	X		
FS03	S	8/9/2021	1325	1	1	X	X	X		
FS04	S	8/9/2021	1344	1	1	X	X	X		
FS05	S	8/9/2021	1348	1	1	X	X	X		
FS06	S	8/9/2021	1351	1	1	X	X	X		
FS07	S	8/9/2021	1417	1	1	X	X	X		
FS08	S	8/9/2021	1419	1	1	X	X	X		
FS09	S	8/9/2021	1423	1	1	X	X	X		
Composite										

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Mo Ni Se Ag Ti U 1631+245.1+7470+7471. Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		8/9/21/15:00			8/9/21 5:05



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Tampa, FL (813) 281-1111
Atlanta, GA (770-449-8800)

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Chain of Custody

Work Order No:

Project Manager:	Kalei Jennings	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	dayton_benner@wsp.com, kalei.jennings@wsp.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ brownfields ☐ RC ☐ superfund ☐ State of Project: Reporting Level I ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	PLU 430H	Turn Around	ANALYSIS REQUEST						Work Order Notes
Project Number:	31403236.009.0129	Routine ☒							Incident Number: nAPP2113830327
P.O. Number:		Rush:							nAPP2113830327
Sampler's Name:	Payton Benner	Due Date:							CC: 114D0861001

SAMPLE RECEIPT		Temp Blank:	Wet Ice:
Temperature (°C):	4.8 / 4.6	Yes No	Yes No
Received intact:	Yes No	Thermometer ID	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

Number of Containers

(EPA 8015)

(EPA 0=8021)

de (EPA 300.0)

890-1082 Chain of Custody

AP: 30-015-42374

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

[illegible]

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010. 8RCRA. Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1634+245-1-7470-7471-Hg

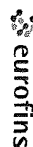
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$73.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>pharmer</i>	<i>W. J. M. C.</i>	4/4/21 15:00	2 <i>W. J. M. C.</i>	<i>J. C. C.</i>	4/4/21 5:00
3			4		
5			6		

Revised Date: 05/11/18 Rev 2018

Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing
| America

Client Information (Sub Contract Lab)						Sampler
Client Contact:						Kramer Jessica
Shipping/Receiving						E-Mail jessica.kramer@eurofinsllc.com
Company Eurofins Xenco						Accreditations Required (See note) NELAP - Louisiana NELAP - Texas
Address 1211 W Florida Ave,						State of Origin New Mexico
City Midland						Job # 890-1082-1
State Zip TX 79701						COC No. 890-343 1
Phone 432-704-5440(Tel)						Page: Page 1 of 1
Email: WQ #						
Project Name: PLU 430H						
Site SSONW#						
Due Date Requested 8/13/2021						
TAT Requested (days):						
Analysis Requested						
Field Filtered Sample (Yes or No) ☒						
Perform MS/MSD (Yes or No) ☒						
8015MOD_NM/8015NM_S_Prep Full TPH						
300_ORGFMM_28D/DI_LEACH Chloride						
8021B/5035FP_Calc BTEX						
Total Number of containers						
Special Instructions/Note:						
Preservation Codes						
A - HCL M Hexane						
B - NaOH N None						
C - Zn Acetate O AsNaO2						
D Nitric Acid P Na2O4S						
E NaHSO4 Q Na2SO3						
F MeOH R - Na2S2O3						
G Amchlor S - H2SO4						
H Ascorbic Acid T TSP Dodecalydrate						
I Ice U Acetone						
J DI Water V MCAA						
K EDTA W pH 4-5						
L EDA Z other (specify)						
Other						
Sample Identification - Client ID (Lab ID)						
FS01 (890-1082-1)						8/9/21
FS02 (890-1082-2)						8/9/21
FS03 (890-1082-3)						8/9/21
FS04 (890-1082-4)						8/9/21
FS05 (890-1082-5)						8/9/21
FS06 (890-1082-6)						8/9/21
FS07 (890-1082-7)						8/9/21
FS08 (890-1082-8)						8/9/21
FS09 (890-1082-9)						8/9/21
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC Laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.						
Possible Hazard Identification						
Unconfirmed						
Deliverable Requested I II III IV Other (specify)						Primary Deliverable Rank 2
Empty Kit Relinquished by						Date
Relinquished by						Date/Time
Relinquished by						Date/Time
Relinquished by						Date/Time
Custody Seals Intact: Δ Yes Δ No						Custody Seal No

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1082-1

SDG Number: 31403236.009.0129

Login Number: 1082

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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: 890-1082-1

SDG Number: 31403236.009.0129

Login Number: 1082

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 08/11/21 11:17 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1089-1

Laboratory Sample Delivery Group: 31403236.009.0129

Client Project/Site: PLU 430H

For:

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

Attn: Dan Moir

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
8/16/2021 12:08:38 PM

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

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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.

Client: WSP USA Inc.
Project/Site: PLU 430H

Laboratory Job ID: 890-1089-1
SDG: 31403236.009.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Job ID: 890-1089-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1089-1

Receipt

The samples were received on 8/10/2021 4:10 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 4.2°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS12 (890-1089-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS10

Lab Sample ID: 890-1089-1

Date Collected: 08/10/21 08:13

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/12/21 14:00	08/13/21 00:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/21 14:00	08/13/21 00:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/21 14:00	08/13/21 00:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/12/21 14:00	08/13/21 00:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/21 14:00	08/13/21 00:36	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/12/21 14:00	08/13/21 00:36	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		08/12/21 14:00	08/13/21 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/12/21 14:00	08/13/21 00:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/12/21 14:00	08/13/21 00:36	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	<50.0	U *-	50.0	mg/Kg		08/12/21 15:33	08/13/21 10:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 10:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 10:09	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/12/21 15:33	08/13/21 10:09	1
o-Terphenyl	86		70 - 130	08/12/21 15:33	08/13/21 10:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		5.04	mg/Kg			08/13/21 14:42	1

Client Sample ID: FS11

Lab Sample ID: 890-1089-2

Date Collected: 08/10/21 09:16

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/12/21 14:00	08/13/21 00:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 14:00	08/13/21 00:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 14:00	08/13/21 00:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/12/21 14:00	08/13/21 00:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 14:00	08/13/21 00:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 14:00	08/13/21 00:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/12/21 14:00	08/13/21 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/12/21 14:00	08/13/21 00:56	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/12/21 14:00	08/13/21 00:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS11

Lab Sample ID: 890-1089-2

Date Collected: 08/10/21 09:16

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 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	-	08/12/21 15:33	08/13/21 11:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	08/12/21 15:33	08/13/21 11:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	08/12/21 15:33	08/13/21 11:12	1
Total TPH	<49.9	U	49.9	mg/Kg	-	08/12/21 15:33	08/13/21 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/12/21 15:33	08/13/21 11:12	1
o-Terphenyl	89		70 - 130	08/12/21 15:33	08/13/21 11:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.29		4.96	mg/Kg	-		08/13/21 14:59	1

Client Sample ID: FS12

Lab Sample ID: 890-1089-3

Date Collected: 08/10/21 09:18

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	-	08/12/21 14:00	08/13/21 01:17	1
Toluene	0.00328		0.00200	mg/Kg	-	08/12/21 14:00	08/13/21 01:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	-	08/12/21 14:00	08/13/21 01:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	-	08/12/21 14:00	08/13/21 01:17	1
o-Xylene	0.00217		0.00200	mg/Kg	-	08/12/21 14:00	08/13/21 01:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	-	08/12/21 14:00	08/13/21 01:17	1
Total BTEX	0.00545		0.00400	mg/Kg	-	08/12/21 14:00	08/13/21 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130	08/12/21 14:00	08/13/21 01:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/12/21 14:00	08/13/21 01:17	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	<49.8	U *-	49.8	mg/Kg	-	08/12/21 15:33	08/13/21 11:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	-	08/12/21 15:33	08/13/21 11:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	-	08/12/21 15:33	08/13/21 11:33	1
Total TPH	<49.8	U	49.8	mg/Kg	-	08/12/21 15:33	08/13/21 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/12/21 15:33	08/13/21 11:33	1
o-Terphenyl	82		70 - 130	08/12/21 15:33	08/13/21 11:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3240		24.9	mg/Kg	-		08/13/21 15:04	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS13

Lab Sample ID: 890-1089-4

Date Collected: 08/10/21 10:07

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/12/21 14:00	08/13/21 01:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/12/21 14:00	08/13/21 01:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/12/21 14:00	08/13/21 01:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/12/21 14:00	08/13/21 01:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/12/21 14:00	08/13/21 01:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/12/21 14:00	08/13/21 01:37	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/12/21 14:00	08/13/21 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/12/21 14:00	08/13/21 01:37	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/12/21 14:00	08/13/21 01:37	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		08/12/21 15:33	08/13/21 11:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 11:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 11:55	1
Total TPH	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/12/21 15:33	08/13/21 11:55	1
o-Terphenyl	82		70 - 130	08/12/21 15:33	08/13/21 11:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		4.99	mg/Kg			08/13/21 15:21	1

Client Sample ID: FS14

Lab Sample ID: 890-1089-5

Date Collected: 08/10/21 10:10

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 14:00	08/13/21 01:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 14:00	08/13/21 01:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 14:00	08/13/21 01:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/12/21 14:00	08/13/21 01:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 14:00	08/13/21 01:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/12/21 14:00	08/13/21 01:57	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/12/21 14:00	08/13/21 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/12/21 14:00	08/13/21 01:57	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/12/21 14:00	08/13/21 01:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS14

Lab Sample ID: 890-1089-5

Date Collected: 08/10/21 10:10

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 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	<49.8	U *-	49.8	mg/Kg		08/12/21 15:33	08/13/21 12:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 12:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 12:16	1
Total TPH	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	08/12/21 15:33	08/13/21 12:16	1
o-Terphenyl	76		70 - 130	08/12/21 15:33	08/13/21 12:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		5.00	mg/Kg			08/13/21 15:26	1

Client Sample ID: FS15

Lab Sample ID: 890-1089-6

Date Collected: 08/10/21 10:13

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 05:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 05:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 05:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 05:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 05:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 05:34	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/12/21 13:07	08/13/21 05:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/12/21 13:07	08/13/21 05:34	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		08/12/21 15:33	08/13/21 12:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 12:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 12:37	1
Total TPH	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	08/12/21 15:33	08/13/21 12:37	1
o-Terphenyl	87		70 - 130	08/12/21 15:33	08/13/21 12:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		5.00	mg/Kg			08/13/21 15:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS16

Lab Sample ID: 890-1089-7

Date Collected: 08/10/21 10:15

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/12/21 13:07	08/13/21 05:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/12/21 13:07	08/13/21 05:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/12/21 13:07	08/13/21 05:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/12/21 13:07	08/13/21 05:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/12/21 13:07	08/13/21 05:55	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/12/21 13:07	08/13/21 05:55	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/12/21 13:07	08/13/21 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/12/21 13:07	08/13/21 05:55	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/12/21 13:07	08/13/21 05:55	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	<49.8	U *-	49.8	mg/Kg		08/12/21 15:33	08/13/21 12:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 12:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 12:58	1
Total TPH	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/12/21 15:33	08/13/21 12:58	1
o-Terphenyl	88		70 - 130	08/12/21 15:33	08/13/21 12:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		4.98	mg/Kg			08/13/21 15:37	1

Client Sample ID: FS17

Lab Sample ID: 890-1089-8

Date Collected: 08/10/21 10:53

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 06:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 06:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 06:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 06:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 06:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 06:15	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/12/21 13:07	08/13/21 06:15	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/12/21 13:07	08/13/21 06:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS17

Lab Sample ID: 890-1089-8

Date Collected: 08/10/21 10:53

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 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	<49.8	U	49.8	mg/Kg		08/13/21 12:01	08/13/21 21:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/13/21 12:01	08/13/21 21:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/13/21 12:01	08/13/21 21:27	1
Total TPH	<49.8	U	49.8	mg/Kg		08/13/21 12:01	08/13/21 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	08/13/21 12:01	08/13/21 21:27	1
o-Terphenyl	116		70 - 130	08/13/21 12:01	08/13/21 21:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		4.97	mg/Kg			08/13/21 15:42	1

Client Sample ID: FS18

Lab Sample ID: 890-1089-9

Date Collected: 08/10/21 10:55

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 06:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 06:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 06:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 06:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 06:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 06:36	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 06:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/12/21 13:07	08/13/21 06:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/12/21 13:07	08/13/21 06:36	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		08/13/21 12:01	08/13/21 21:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 21:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 21:48	1
Total TPH	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/13/21 12:01	08/13/21 21:48	1
o-Terphenyl	106		70 - 130	08/13/21 12:01	08/13/21 21:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		4.96	mg/Kg			08/13/21 15:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS19

Lab Sample ID: 890-1089-10

Date Collected: 08/10/21 10:59

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 06:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 06:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 06:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 06:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 06:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 06:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/12/21 13:07	08/13/21 06:56	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/12/21 13:07	08/13/21 06:56	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		08/13/21 12:01	08/13/21 22:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 22:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 22:08	1
Total TPH	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/13/21 12:01	08/13/21 22:08	1
o-Terphenyl	104		70 - 130	08/13/21 12:01	08/13/21 22:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.5		4.97	mg/Kg			08/13/21 15:53	1

Client Sample ID: FS20

Lab Sample ID: 890-1089-11

Date Collected: 08/10/21 11:02

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:07	08/13/21 07:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:07	08/13/21 07:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:07	08/13/21 07:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/12/21 13:07	08/13/21 07:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:07	08/13/21 07:17	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/12/21 13:07	08/13/21 07:17	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		08/12/21 13:07	08/13/21 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/12/21 13:07	08/13/21 07:17	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/12/21 13:07	08/13/21 07:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS20

Lab Sample ID: 890-1089-11

Date Collected: 08/10/21 11:02

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 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	<49.8	U	49.8	mg/Kg		08/13/21 12:01	08/13/21 22:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/13/21 12:01	08/13/21 22:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/13/21 12:01	08/13/21 22:29	1
Total TPH	<49.8	U	49.8	mg/Kg		08/13/21 12:01	08/13/21 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/13/21 12:01	08/13/21 22:29	1
o-Terphenyl	106		70 - 130	08/13/21 12:01	08/13/21 22:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	466		5.04	mg/Kg			08/14/21 13:46	1

Client Sample ID: FS21

Lab Sample ID: 890-1089-12

Date Collected: 08/10/21 11:08

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 07:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 07:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 07:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 07:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 07:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 07:37	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/12/21 13:07	08/13/21 07:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/12/21 13:07	08/13/21 07:37	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	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 23:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 23:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 23:10	1
Total TPH	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/13/21 12:01	08/13/21 23:10	1
o-Terphenyl	106		70 - 130	08/13/21 12:01	08/13/21 23:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686		4.97	mg/Kg			08/14/21 13:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS22

Lab Sample ID: 890-1089-13

Date Collected: 08/10/21 11:10

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:07	08/13/21 07:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:07	08/13/21 07:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:07	08/13/21 07:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/12/21 13:07	08/13/21 07:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/21 13:07	08/13/21 07:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/12/21 13:07	08/13/21 07:57	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/12/21 13:07	08/13/21 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/12/21 13:07	08/13/21 07:57	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/12/21 13:07	08/13/21 07:57	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	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 23:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 23:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 23:31	1
Total TPH	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/13/21 12:01	08/13/21 23:31	1
o-Terphenyl	102		70 - 130	08/13/21 12:01	08/13/21 23:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1990		25.0	mg/Kg			08/14/21 14:09	5

Client Sample ID: FS23

Lab Sample ID: 890-1089-14

Date Collected: 08/10/21 11:12

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 08:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 08:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 08:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 08:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 08:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 08:18	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130	08/12/21 13:07	08/13/21 08:18	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/12/21 13:07	08/13/21 08:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS23

Lab Sample ID: 890-1089-14

Date Collected: 08/10/21 11:12

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 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		08/13/21 12:01	08/13/21 23:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 23:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 23:52	1
Total TPH	<49.9	U	49.9	mg/Kg		08/13/21 12:01	08/13/21 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/13/21 12:01	08/13/21 23:52	1
o-Terphenyl	113		70 - 130	08/13/21 12:01	08/13/21 23:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		4.96	mg/Kg			08/14/21 14:14	1

Client Sample ID: FS24

Lab Sample ID: 890-1089-15

Date Collected: 08/10/21 11:14

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 08:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 08:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 08:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 08:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 08:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 08:38	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	08/12/21 13:07	08/13/21 08:38	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/12/21 13:07	08/13/21 08:38	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	<49.8	U *-	49.8	mg/Kg		08/12/21 15:33	08/13/21 16:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 16:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 16:12	1
Total TPH	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	08/12/21 15:33	08/13/21 16:12	1
o-Terphenyl	78		70 - 130	08/12/21 15:33	08/13/21 16:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	441		4.95	mg/Kg			08/14/21 14:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS25

Lab Sample ID: 890-1089-16

Date Collected: 08/10/21 12:38

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/12/21 13:07	08/13/21 10:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/12/21 13:07	08/13/21 10:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/12/21 13:07	08/13/21 10:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/12/21 13:07	08/13/21 10:28	1
o-Xylene	0.00216		0.00201	mg/Kg		08/12/21 13:07	08/13/21 10:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/12/21 13:07	08/13/21 10:28	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/12/21 13:07	08/13/21 10:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130	08/12/21 13:07	08/13/21 10:28	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/12/21 13:07	08/13/21 10:28	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		08/12/21 15:33	08/13/21 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 16:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 16:33	1
Total TPH	<49.9	U	49.9	mg/Kg		08/12/21 15:33	08/13/21 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/12/21 15:33	08/13/21 16:33	1
o-Terphenyl	88		70 - 130	08/12/21 15:33	08/13/21 16:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		4.95	mg/Kg			08/14/21 14:25	1

Client Sample ID: FS26

Lab Sample ID: 890-1089-17

Date Collected: 08/10/21 12:40

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 10:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 10:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 10:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 10:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 13:07	08/13/21 10:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 10:48	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/12/21 13:07	08/13/21 10:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/12/21 13:07	08/13/21 10:48	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/12/21 13:07	08/13/21 10:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS26

Lab Sample ID: 890-1089-17

Date Collected: 08/10/21 12:40

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 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	<50.0	U *-	50.0	mg/Kg		08/12/21 15:33	08/13/21 16:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 16:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 16:54	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/12/21 15:33	08/13/21 16:54	1
o-Terphenyl	86		70 - 130	08/12/21 15:33	08/13/21 16:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.8		5.00	mg/Kg			08/14/21 14:31	1

Client Sample ID: FS27

Lab Sample ID: 890-1089-18

Date Collected: 08/10/21 12:42

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/12/21 13:07	08/13/21 11:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/12/21 13:07	08/13/21 11:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/12/21 13:07	08/13/21 11:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/12/21 13:07	08/13/21 11:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/12/21 13:07	08/13/21 11:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/12/21 13:07	08/13/21 11:09	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/12/21 13:07	08/13/21 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/12/21 13:07	08/13/21 11:09	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/12/21 13:07	08/13/21 11:09	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	<49.8	U *-	49.8	mg/Kg		08/12/21 15:33	08/13/21 17:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 17:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 17:16	1
Total TPH	<49.8	U	49.8	mg/Kg		08/12/21 15:33	08/13/21 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/12/21 15:33	08/13/21 17:16	1
o-Terphenyl	86		70 - 130	08/12/21 15:33	08/13/21 17:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	797	F1	5.04	mg/Kg			08/14/21 14:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS28

Lab Sample ID: 890-1089-19

Date Collected: 08/10/21 12:45

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 11:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 11:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 11:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 11:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 11:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 11:29	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/12/21 13:07	08/13/21 11:29	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/12/21 13:07	08/13/21 11:29	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	<50.0	U *-	50.0	mg/Kg		08/12/21 15:33	08/13/21 17:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 17:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 17:37	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/12/21 15:33	08/13/21 17:37	1
o-Terphenyl	89		70 - 130	08/12/21 15:33	08/13/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.8		4.97	mg/Kg			08/14/21 14:53	1

Client Sample ID: FS29

Lab Sample ID: 890-1089-20

Date Collected: 08/10/21 12:52

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 11:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 11:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 11:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 11:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 11:50	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 11:50	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/12/21 13:07	08/13/21 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/12/21 13:07	08/13/21 11:50	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/12/21 13:07	08/13/21 11:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS29

Lab Sample ID: 890-1089-20

Date Collected: 08/10/21 12:52

Matrix: Solid

Date Received: 08/10/21 16:10

Sample Depth: - 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	<50.0	U *-	50.0	mg/Kg		08/12/21 15:33	08/13/21 17:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 17:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 17:58	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/12/21 15:33	08/13/21 17:58	1
o-Terphenyl	85		70 - 130	08/12/21 15:33	08/13/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.95	mg/Kg			08/14/21 14:59	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1089-1	FS10	114	103
890-1089-2	FS11	132 S1+	108
890-1089-3	FS12	169 S1+	91
890-1089-4	FS13	120	111
890-1089-5	FS14	124	109
890-1089-6	FS15	119	102
890-1089-6 MS	FS15	104	103
890-1089-6 MSD	FS15	111	103
890-1089-7	FS16	113	114
890-1089-8	FS17	115	110
890-1089-9	FS18	123	104
890-1089-10	FS19	115	112
890-1089-11	FS20	112	113
890-1089-12	FS21	114	104
890-1089-13	FS22	118	110
890-1089-14	FS23	163 S1+	89
890-1089-15	FS24	147 S1+	106
890-1089-16	FS25	166 S1+	98
890-1089-17	FS26	116	112
890-1089-18	FS27	115	114
890-1089-19	FS28	114	115
890-1089-20	FS29	113	105
LCS 880-6413/1-A	Lab Control Sample	103	105
LCS 880-6448/1-A	Lab Control Sample	102	99
LCSD 880-6413/2-A	Lab Control Sample Dup	105	100
LCSD 880-6448/2-A	Lab Control Sample Dup	106	99
MB 880-6413/5-A	Method Blank	128	104
MB 880-6448/5-A	Method Blank	124	105
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1089-1	FS10	80	86
890-1089-1 MS	FS10	80	82
890-1089-1 MSD	FS10	78	79
890-1089-2	FS11	84	89
890-1089-3	FS12	78	82
890-1089-4	FS13	79	82
890-1089-5	FS14	74	76
890-1089-6	FS15	82	87
890-1089-7	FS16	80	88
890-1089-8	FS17	106	116
890-1089-9	FS18	99	106

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1089-10	FS19	97	104
890-1089-11	FS20	99	106
890-1089-12	FS21	100	106
890-1089-13	FS22	96	102
890-1089-14	FS23	103	113
890-1089-15	FS24	76	78
890-1089-16	FS25	81	88
890-1089-17	FS26	80	86
890-1089-18	FS27	79	86
890-1089-19	FS28	83	89
890-1089-20	FS29	80	85
890-1099-A-1-G MS	Matrix Spike	95	89
890-1099-A-1-H MSD	Matrix Spike Duplicate	93	88
LCS 880-6465/2-A	Lab Control Sample	77	80
LCS 880-6520/2-A	Lab Control Sample	96	94
LCSD 880-6465/3-A	Lab Control Sample Dup	75	78
LCSD 880-6520/3-A	Lab Control Sample Dup	96	94
MB 880-6465/1-A	Method Blank	80	83
MB 880-6520/1-A	Method Blank	106	116

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6413/5-A

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6413

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 14:00	08/12/21 17:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 14:00	08/12/21 17:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 14:00	08/12/21 17:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/21 14:00	08/12/21 17:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 14:00	08/12/21 17:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 14:00	08/12/21 17:32	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 14:00	08/12/21 17:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/12/21 14:00	08/12/21 17:32	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/12/21 14:00	08/12/21 17:32	1

Lab Sample ID: LCS 880-6413/1-A

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09824		mg/Kg		98	70 - 130
Toluene	0.100	0.09316		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09939		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-6413/2-A

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6413

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09146		mg/Kg		91	70 - 130	7	35
Toluene	0.100	0.09105		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.09640		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2005		mg/Kg		100	70 - 130	4	35
o-Xylene	0.100	0.09972		mg/Kg		100	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-6448/5-A

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6448

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 05:06	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

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

Lab Sample ID: MB 880-6448/5-A

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6448

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 05:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 05:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 05:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 13:07	08/13/21 05:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 05:06	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 13:07	08/13/21 05:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/12/21 13:07	08/13/21 05:06	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/12/21 13:07	08/13/21 05:06	1

Lab Sample ID: LCS 880-6448/1-A

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08732		mg/Kg		87	70 - 130
Toluene	0.100	0.08845		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09445		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09897		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-6448/2-A

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6448

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	2	35
Toluene	0.100	0.08866		mg/Kg		89	70 - 130	0	35
Ethylbenzene	0.100	0.09684		mg/Kg		97	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2009		mg/Kg		100	70 - 130	2	35
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	3	35

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

Lab Sample ID: 890-1089-6 MS

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: FS15

Prep Type: Total/NA

Prep Batch: 6448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.08380		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.100	0.07975		mg/Kg		79	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

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

Lab Sample ID: 890-1089-6 MS

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: FS15

Prep Type: Total/NA

Prep Batch: 6448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.100	0.08236		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1698		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.100	0.08489		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1089-6 MSD

Matrix: Solid

Analysis Batch: 6462

Client Sample ID: FS15

Prep Type: Total/NA

Prep Batch: 6448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07234		mg/Kg		72	70 - 130	15	35
Toluene	<0.00200	U	0.100	0.07650		mg/Kg		76	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.07918		mg/Kg		79	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1648		mg/Kg		82	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.08234		mg/Kg		82	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-6465/1-A

Matrix: Solid

Analysis Batch: 6488

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6465

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 08:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 08:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 08:44	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 15:33	08/13/21 08:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/12/21 15:33	08/13/21 08:44	1
o-Terphenyl	83		70 - 130	08/12/21 15:33	08/13/21 08:44	1

Lab Sample ID: LCS 880-6465/2-A

Matrix: Solid

Analysis Batch: 6488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	674.7	*-	mg/Kg		67	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

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

Lab Sample ID: LCS 880-6465/2-A

Matrix: Solid

Analysis Batch: 6488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6465

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics (Over C10-C28)			1000	720.5		mg/Kg		72	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	77		70 - 130								
o-Terphenyl	80		70 - 130								

Lab Sample ID: LCSD 880-6465/3-A

Matrix: Solid

Analysis Batch: 6488

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6465

Top Data: 0.00										
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD
			Added	Result	Qualifier			Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	668.8	*-	mg/Kg		67	70 - 130	1
Diesel Range Organics (Over C10-C28)			1000	709.2		mg/Kg		71	70 - 130	2
Surrogate	LCSD	LCSD								
	%Recovery	Qualifier	Limits							
1-Chlorooctane	75		70 - 130							
o-Terphenyl	78		70 - 130							

Lab Sample ID: 890-1089-1 MS

Matrix: Solid

Analysis Batch: 6488

Client Sample ID: FS10

Prep Type: Total/NA

Prep Batch: 6465

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	995	802.8		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	815.9		mg/Kg		82	70 - 130		
									</		

Lab Sample ID: 890-1089-1 MSD

Matrix: Solid

Analysis Batch: 6488

Client Sample ID: FS10

Prep Type: Total/NA

Prep Batch: 6465

Top Data: 0.00											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	998	756.8		mg/Kg		76	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	800.6		mg/Kg		80	70 - 130	2	20
											</

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

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

Lab Sample ID: MB 880-6520/1-A

Matrix: Solid

Analysis Batch: 6484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6520

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 17:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 17:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 17:34	1
Total TPH	<50.0	U	50.0	mg/Kg		08/13/21 12:01	08/13/21 17:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	08/13/21 12:01	08/13/21 17:34	1
o-Terphenyl	116		70 - 130	08/13/21 12:01	08/13/21 17:34	1

Lab Sample ID: LCS 880-6520/2-A

Matrix: Solid

Analysis Batch: 6484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	898.7		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	815.1		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-6520/3-A

Matrix: Solid

Analysis Batch: 6484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	910.7		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	808.7		mg/Kg		81	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-1099-A-1-G MS

Matrix: Solid

Analysis Batch: 6484

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1019		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	852.3		mg/Kg		86	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

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

Lab Sample ID: 890-1099-A-1-G MS

Matrix: Solid

Analysis Batch: 6484

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6520

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 890-1099-A-1-H MSD

Matrix: Solid

Analysis Batch: 6484

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1003		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	840.3		mg/Kg		84	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6467/1-A

Matrix: Solid

Analysis Batch: 6482

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/13/21 13:09	1

Lab Sample ID: LCS 880-6467/2-A

Matrix: Solid

Analysis Batch: 6482

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-6467/3-A

Matrix: Solid

Analysis Batch: 6482

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	253.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-1089-1 MS

Matrix: Solid

Analysis Batch: 6482

Client Sample ID: FS10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	158		249	390.2		mg/Kg		93	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1089-1 MSD

Matrix: Solid

Analysis Batch: 6482

Client Sample ID: FS10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	158		248	388.3		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-6459/1-A

Matrix: Solid

Analysis Batch: 6561

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/14/21 13:01	1

Lab Sample ID: LCS 880-6459/2-A

Matrix: Solid

Analysis Batch: 6561

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	262.3		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-6459/3-A

Matrix: Solid

Analysis Batch: 6561

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	262.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1089-18 MS

Matrix: Solid

Analysis Batch: 6561

Client Sample ID: FS27

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	797	F1	252	1010	F1	mg/Kg		85	90 - 110

Lab Sample ID: 890-1089-18 MSD

Matrix: Solid

Analysis Batch: 6561

Client Sample ID: FS27

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	797	F1	252	1014	F1	mg/Kg		86	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

GC VOA

Prep Batch: 6413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-1	FS10	Total/NA	Solid	5035	
890-1089-2	FS11	Total/NA	Solid	5035	
890-1089-3	FS12	Total/NA	Solid	5035	
890-1089-4	FS13	Total/NA	Solid	5035	
890-1089-5	FS14	Total/NA	Solid	5035	
MB 880-6413/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6413/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6413/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 6448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-6	FS15	Total/NA	Solid	5035	
890-1089-7	FS16	Total/NA	Solid	5035	
890-1089-8	FS17	Total/NA	Solid	5035	
890-1089-9	FS18	Total/NA	Solid	5035	
890-1089-10	FS19	Total/NA	Solid	5035	
890-1089-11	FS20	Total/NA	Solid	5035	
890-1089-12	FS21	Total/NA	Solid	5035	
890-1089-13	FS22	Total/NA	Solid	5035	
890-1089-14	FS23	Total/NA	Solid	5035	
890-1089-15	FS24	Total/NA	Solid	5035	
890-1089-16	FS25	Total/NA	Solid	5035	
890-1089-17	FS26	Total/NA	Solid	5035	
890-1089-18	FS27	Total/NA	Solid	5035	
890-1089-19	FS28	Total/NA	Solid	5035	
890-1089-20	FS29	Total/NA	Solid	5035	
MB 880-6448/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6448/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6448/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1089-6 MS	FS15	Total/NA	Solid	5035	
890-1089-6 MSD	FS15	Total/NA	Solid	5035	

Analysis Batch: 6462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-1	FS10	Total/NA	Solid	8021B	6413
890-1089-2	FS11	Total/NA	Solid	8021B	6413
890-1089-3	FS12	Total/NA	Solid	8021B	6413
890-1089-4	FS13	Total/NA	Solid	8021B	6413
890-1089-5	FS14	Total/NA	Solid	8021B	6413
890-1089-6	FS15	Total/NA	Solid	8021B	6448
890-1089-7	FS16	Total/NA	Solid	8021B	6448
890-1089-8	FS17	Total/NA	Solid	8021B	6448
890-1089-9	FS18	Total/NA	Solid	8021B	6448
890-1089-10	FS19	Total/NA	Solid	8021B	6448
890-1089-11	FS20	Total/NA	Solid	8021B	6448
890-1089-12	FS21	Total/NA	Solid	8021B	6448
890-1089-13	FS22	Total/NA	Solid	8021B	6448
890-1089-14	FS23	Total/NA	Solid	8021B	6448
890-1089-15	FS24	Total/NA	Solid	8021B	6448
890-1089-16	FS25	Total/NA	Solid	8021B	6448
890-1089-17	FS26	Total/NA	Solid	8021B	6448

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

GC VOA (Continued)

Analysis Batch: 6462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-18	FS27	Total/NA	Solid	8021B	6448
890-1089-19	FS28	Total/NA	Solid	8021B	6448
890-1089-20	FS29	Total/NA	Solid	8021B	6448
MB 880-6413/5-A	Method Blank	Total/NA	Solid	8021B	6413
MB 880-6448/5-A	Method Blank	Total/NA	Solid	8021B	6448
LCS 880-6413/1-A	Lab Control Sample	Total/NA	Solid	8021B	6413
LCS 880-6448/1-A	Lab Control Sample	Total/NA	Solid	8021B	6448
LCSD 880-6413/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6413
LCSD 880-6448/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6448
890-1089-6 MS	FS15	Total/NA	Solid	8021B	6448
890-1089-6 MSD	FS15	Total/NA	Solid	8021B	6448

GC Semi VOA

Prep Batch: 6465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-1	FS10	Total/NA	Solid	8015NM Prep	
890-1089-2	FS11	Total/NA	Solid	8015NM Prep	
890-1089-3	FS12	Total/NA	Solid	8015NM Prep	
890-1089-4	FS13	Total/NA	Solid	8015NM Prep	
890-1089-5	FS14	Total/NA	Solid	8015NM Prep	
890-1089-6	FS15	Total/NA	Solid	8015NM Prep	
890-1089-7	FS16	Total/NA	Solid	8015NM Prep	
890-1089-15	FS24	Total/NA	Solid	8015NM Prep	
890-1089-16	FS25	Total/NA	Solid	8015NM Prep	
890-1089-17	FS26	Total/NA	Solid	8015NM Prep	
890-1089-18	FS27	Total/NA	Solid	8015NM Prep	
890-1089-19	FS28	Total/NA	Solid	8015NM Prep	
890-1089-20	FS29	Total/NA	Solid	8015NM Prep	
MB 880-6465/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6465/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6465/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1089-1 MS	FS10	Total/NA	Solid	8015NM Prep	
890-1089-1 MSD	FS10	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-8	FS17	Total/NA	Solid	8015B NM	6520
890-1089-9	FS18	Total/NA	Solid	8015B NM	6520
890-1089-10	FS19	Total/NA	Solid	8015B NM	6520
890-1089-11	FS20	Total/NA	Solid	8015B NM	6520
890-1089-12	FS21	Total/NA	Solid	8015B NM	6520
890-1089-13	FS22	Total/NA	Solid	8015B NM	6520
890-1089-14	FS23	Total/NA	Solid	8015B NM	6520
MB 880-6520/1-A	Method Blank	Total/NA	Solid	8015B NM	6520
LCS 880-6520/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6520
LCSD 880-6520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6520
890-1099-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	6520
890-1099-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6520

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

GC Semi VOA

Analysis Batch: 6488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-1	FS10	Total/NA	Solid	8015B NM	6465
890-1089-2	FS11	Total/NA	Solid	8015B NM	6465
890-1089-3	FS12	Total/NA	Solid	8015B NM	6465
890-1089-4	FS13	Total/NA	Solid	8015B NM	6465
890-1089-5	FS14	Total/NA	Solid	8015B NM	6465
890-1089-6	FS15	Total/NA	Solid	8015B NM	6465
890-1089-7	FS16	Total/NA	Solid	8015B NM	6465
890-1089-15	FS24	Total/NA	Solid	8015B NM	6465
890-1089-16	FS25	Total/NA	Solid	8015B NM	6465
890-1089-17	FS26	Total/NA	Solid	8015B NM	6465
890-1089-18	FS27	Total/NA	Solid	8015B NM	6465
890-1089-19	FS28	Total/NA	Solid	8015B NM	6465
890-1089-20	FS29	Total/NA	Solid	8015B NM	6465
MB 880-6465/1-A	Method Blank	Total/NA	Solid	8015B NM	6465
LCS 880-6465/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6465
LCSD 880-6465/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6465
890-1089-1 MS	FS10	Total/NA	Solid	8015B NM	6465
890-1089-1 MSD	FS10	Total/NA	Solid	8015B NM	6465

Prep Batch: 6520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-8	FS17	Total/NA	Solid	8015NM Prep	
890-1089-9	FS18	Total/NA	Solid	8015NM Prep	
890-1089-10	FS19	Total/NA	Solid	8015NM Prep	
890-1089-11	FS20	Total/NA	Solid	8015NM Prep	
890-1089-12	FS21	Total/NA	Solid	8015NM Prep	
890-1089-13	FS22	Total/NA	Solid	8015NM Prep	
890-1089-14	FS23	Total/NA	Solid	8015NM Prep	
MB 880-6520/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6520/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1099-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1099-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-11	FS20	Soluble	Solid	DI Leach	
890-1089-12	FS21	Soluble	Solid	DI Leach	
890-1089-13	FS22	Soluble	Solid	DI Leach	
890-1089-14	FS23	Soluble	Solid	DI Leach	
890-1089-15	FS24	Soluble	Solid	DI Leach	
890-1089-16	FS25	Soluble	Solid	DI Leach	
890-1089-17	FS26	Soluble	Solid	DI Leach	
890-1089-18	FS27	Soluble	Solid	DI Leach	
890-1089-19	FS28	Soluble	Solid	DI Leach	
890-1089-20	FS29	Soluble	Solid	DI Leach	
MB 880-6459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

HPLC/IC (Continued)

Leach Batch: 6459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-18 MS	FS27	Soluble	Solid	DI Leach	
890-1089-18 MSD	FS27	Soluble	Solid	DI Leach	

Leach Batch: 6467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-1	FS10	Soluble	Solid	DI Leach	
890-1089-2	FS11	Soluble	Solid	DI Leach	
890-1089-3	FS12	Soluble	Solid	DI Leach	
890-1089-4	FS13	Soluble	Solid	DI Leach	
890-1089-5	FS14	Soluble	Solid	DI Leach	
890-1089-6	FS15	Soluble	Solid	DI Leach	
890-1089-7	FS16	Soluble	Solid	DI Leach	
890-1089-8	FS17	Soluble	Solid	DI Leach	
890-1089-9	FS18	Soluble	Solid	DI Leach	
890-1089-10	FS19	Soluble	Solid	DI Leach	
MB 880-6467/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6467/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6467/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1089-1 MS	FS10	Soluble	Solid	DI Leach	
890-1089-1 MSD	FS10	Soluble	Solid	DI Leach	

Analysis Batch: 6482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-1	FS10	Soluble	Solid	300.0	6467
890-1089-2	FS11	Soluble	Solid	300.0	6467
890-1089-3	FS12	Soluble	Solid	300.0	6467
890-1089-4	FS13	Soluble	Solid	300.0	6467
890-1089-5	FS14	Soluble	Solid	300.0	6467
890-1089-6	FS15	Soluble	Solid	300.0	6467
890-1089-7	FS16	Soluble	Solid	300.0	6467
890-1089-8	FS17	Soluble	Solid	300.0	6467
890-1089-9	FS18	Soluble	Solid	300.0	6467
890-1089-10	FS19	Soluble	Solid	300.0	6467
MB 880-6467/1-A	Method Blank	Soluble	Solid	300.0	6467
LCS 880-6467/2-A	Lab Control Sample	Soluble	Solid	300.0	6467
LCSD 880-6467/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6467
890-1089-1 MS	FS10	Soluble	Solid	300.0	6467
890-1089-1 MSD	FS10	Soluble	Solid	300.0	6467

Analysis Batch: 6561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1089-11	FS20	Soluble	Solid	300.0	6459
890-1089-12	FS21	Soluble	Solid	300.0	6459
890-1089-13	FS22	Soluble	Solid	300.0	6459
890-1089-14	FS23	Soluble	Solid	300.0	6459
890-1089-15	FS24	Soluble	Solid	300.0	6459
890-1089-16	FS25	Soluble	Solid	300.0	6459
890-1089-17	FS26	Soluble	Solid	300.0	6459
890-1089-18	FS27	Soluble	Solid	300.0	6459
890-1089-19	FS28	Soluble	Solid	300.0	6459
890-1089-20	FS29	Soluble	Solid	300.0	6459

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

HPLC/IC (Continued)

Analysis Batch: 6561 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6459/1-A	Method Blank	Soluble	Solid	300.0	6459
LCS 880-6459/2-A	Lab Control Sample	Soluble	Solid	300.0	6459
LCSD 880-6459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6459
890-1089-18 MS	FS27	Soluble	Solid	300.0	6459
890-1089-18 MSD	FS27	Soluble	Solid	300.0	6459

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS10

Lab Sample ID: 890-1089-1

Date Collected: 08/10/21 08:13

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6413	08/12/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 00:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 10:09	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 14:42	CH	XEN MID

Client Sample ID: FS11

Lab Sample ID: 890-1089-2

Date Collected: 08/10/21 09:16

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6413	08/12/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 00:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 11:12	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 14:59	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-1089-3

Date Collected: 08/10/21 09:18

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6413	08/12/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 01:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 11:33	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		5	6482	08/13/21 15:04	CH	XEN MID

Client Sample ID: FS13

Lab Sample ID: 890-1089-4

Date Collected: 08/10/21 10:07

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6413	08/12/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 01:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 11:55	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 15:21	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS14

Lab Sample ID: 890-1089-5

Date Collected: 08/10/21 10:10

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6413	08/12/21 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 01:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 12:16	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 15:26	CH	XEN MID

Client Sample ID: FS15

Lab Sample ID: 890-1089-6

Date Collected: 08/10/21 10:13

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 05:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 12:37	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 15:32	CH	XEN MID

Client Sample ID: FS16

Lab Sample ID: 890-1089-7

Date Collected: 08/10/21 10:15

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 05:55	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 12:58	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 15:37	CH	XEN MID

Client Sample ID: FS17

Lab Sample ID: 890-1089-8

Date Collected: 08/10/21 10:53

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 06:15	MR	XEN MID
Total/NA	Prep	8015NM Prep			6520	08/13/21 12:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6484	08/13/21 21:27	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 15:42	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS18

Lab Sample ID: 890-1089-9

Date Collected: 08/10/21 10:55

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 06:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			6520	08/13/21 12:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6484	08/13/21 21:48	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 15:48	CH	XEN MID

Client Sample ID: FS19

Lab Sample ID: 890-1089-10

Date Collected: 08/10/21 10:59

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 06:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			6520	08/13/21 12:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6484	08/13/21 22:08	AJ	XEN MID
Soluble	Leach	DI Leach			6467	08/12/21 15:42	SC	XEN MID
Soluble	Analysis	300.0		1	6482	08/13/21 15:53	CH	XEN MID

Client Sample ID: FS20

Lab Sample ID: 890-1089-11

Date Collected: 08/10/21 11:02

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 07:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			6520	08/13/21 12:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6484	08/13/21 22:29	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 13:46	CH	XEN MID

Client Sample ID: FS21

Lab Sample ID: 890-1089-12

Date Collected: 08/10/21 11:08

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 07:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			6520	08/13/21 12:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6484	08/13/21 23:10	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 13:52	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS22

Lab Sample ID: 890-1089-13

Date Collected: 08/10/21 11:10

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 07:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			6520	08/13/21 12:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6484	08/13/21 23:31	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		5	6561	08/14/21 14:09	CH	XEN MID

Client Sample ID: FS23

Lab Sample ID: 890-1089-14

Date Collected: 08/10/21 11:12

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 08:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			6520	08/13/21 12:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6484	08/13/21 23:52	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 14:14	CH	XEN MID

Client Sample ID: FS24

Lab Sample ID: 890-1089-15

Date Collected: 08/10/21 11:14

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 08:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 16:12	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 14:20	CH	XEN MID

Client Sample ID: FS25

Lab Sample ID: 890-1089-16

Date Collected: 08/10/21 12:38

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 10:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 16:33	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 14:25	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Client Sample ID: FS26

Lab Sample ID: 890-1089-17

Date Collected: 08/10/21 12:40

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 10:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 14:31	CH	XEN MID

Client Sample ID: FS27

Lab Sample ID: 890-1089-18

Date Collected: 08/10/21 12:42

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 11:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 17:16	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 14:37	CH	XEN MID

Client Sample ID: FS28

Lab Sample ID: 890-1089-19

Date Collected: 08/10/21 12:45

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 11:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 14:53	CH	XEN MID

Client Sample ID: FS29

Lab Sample ID: 890-1089-20

Date Collected: 08/10/21 12:52

Matrix: Solid

Date Received: 08/10/21 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6448	08/12/21 13:07	KL	XEN MID
Total/NA	Analysis	8021B		1	6462	08/13/21 11:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			6465	08/12/21 15:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6488	08/13/21 17:58	AJ	XEN MID
Soluble	Leach	DI Leach			6459	08/12/21 13:45	SC	XEN MID
Soluble	Analysis	300.0		1	6561	08/14/21 14:59	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 430H

Job ID: 890-1089-1
SDG: 31403236.009.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1089-1	FS10	Solid	08/10/21 08:13	08/10/21 16:10	- 1
890-1089-2	FS11	Solid	08/10/21 09:16	08/10/21 16:10	- 1
890-1089-3	FS12	Solid	08/10/21 09:18	08/10/21 16:10	- 1
890-1089-4	FS13	Solid	08/10/21 10:07	08/10/21 16:10	- 1
890-1089-5	FS14	Solid	08/10/21 10:10	08/10/21 16:10	- 1
890-1089-6	FS15	Solid	08/10/21 10:13	08/10/21 16:10	- 1
890-1089-7	FS16	Solid	08/10/21 10:15	08/10/21 16:10	- 1
890-1089-8	FS17	Solid	08/10/21 10:53	08/10/21 16:10	- 1
890-1089-9	FS18	Solid	08/10/21 10:55	08/10/21 16:10	- 1
890-1089-10	FS19	Solid	08/10/21 10:59	08/10/21 16:10	- 1
890-1089-11	FS20	Solid	08/10/21 11:02	08/10/21 16:10	- 1
890-1089-12	FS21	Solid	08/10/21 11:08	08/10/21 16:10	- 1
890-1089-13	FS22	Solid	08/10/21 11:10	08/10/21 16:10	- 1
890-1089-14	FS23	Solid	08/10/21 11:12	08/10/21 16:10	- 1
890-1089-15	FS24	Solid	08/10/21 11:14	08/10/21 16:10	- 1
890-1089-16	FS25	Solid	08/10/21 12:38	08/10/21 16:10	- 1
890-1089-17	FS26	Solid	08/10/21 12:40	08/10/21 16:10	- 1
890-1089-18	FS27	Solid	08/10/21 12:42	08/10/21 16:10	- 1
890-1089-19	FS28	Solid	08/10/21 12:45	08/10/21 16:10	- 1
890-1089-20	FS29	Solid	08/10/21 12:52	08/10/21 16:10	- 1



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0500 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 291-1111
Hobbs, NM (575-392-7550)

Chain of Custody

Work Order No:

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Page 1 of 2

Project Manager:	Kalei Jennings	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	payton.benner@wsp.com, kalei.jennings@wsp.com

Work Order Comments	
Program: UST/ST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐ State of Project: Reporting Level: I ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	PLU 430H	Turn Around
Project Number:	31403236.009.0129	Routine ☒
P.O. Number:		Rush:
Sampler's Name:	Payton Benner	Due Date:

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	4.4/4.2				Thermometer ID		
Received Intact:	(Yes) No				27N-002		
Cooler Custody Seals:	Yes (No) N/A				Correction Factor:		
Sample Custody Seals:	Yes (No) N/A				Total Containers:		

ANALYSIS REQUEST		Work Order Notes
Number of Containers		CC: 1140861001 API: 30-015-42374 Incident Number nAPP2113830327
PA 8015)		
EPA 0=8021)		
de (EPA 300.0)		
 890-1089 Chain of Custody		
TAT starts the day received by the lab, if received by 4:30pm		

[illegible]

Total	200.7 / 6010	200.8 / 6020:
8RCRA	13PPM	Texas 11
Al	Sb	As
Ba	Be	B
Cd	Ca	Cr
Co	Cu	Fe
Pb	Mg	Mn
Mo	Ni	K
Se	Ag	SiO2
Na	Sr	U
V	Sn	Zn
1631 / 245-1	7470	7474
1631 / 245-1	7470	7474

Notice: Xencio 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 Xencio. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencio, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>pharmel</i>	<i>Cue City</i>	8/10/21 1608	2		
3			4		
5			6		



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 281-1111
Hobbs, NM (575-382-7550)

Chain of Custody

Work Order No.

Page 2 of 2

Project Manager:	Kalei Jennings	Bill to: (if different)	Kyle Litrell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	payton.benner@wsp.com, kalei.jennings@wsp.com

Work Order Comments				
Program: UST/ST	☐ PRP	☐ brownfields	☐ RC	☐ superfund
State of Project:				
Reporting Level II	☐ level III	☐ ST/UST	☐ RRP	☐ level IV
Deliverables: EDD	☐	ADAPT	☐	Other: ☐

		ANALYSIS REQUEST								Work Order Notes
Project Name:	PLU 430H	Turn Around								CC: 1140861001 API: 30-015-42374 Incident Number
Project Number:	31403236.009.0129	Routine ☒								
P.O. Number:		Rush:								
Sampler's Name:	Payton Benner	Due Date:								

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):		Thermometer ID					
Received Intact:	Yes	No					
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:			
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

Number of Containers

(EPA 8015)

(EPA 0=8021)

le (EPA 300.0)

nAPP2113830327

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

[illegible]

Circle Method(s) and Material(s) to be analyzed	Total 200.7 / 6010	200.8 / 6020:
8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ii Sn U V Zn
TCPP / SPLP 6040- 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1631 / 2455 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencro 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 Xencro. A minimum charge of \$75.00 will be applied to each project and a charge of \$3 for each sample submitted to Xencro, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		8-10-21 16:52			

Revised Date 03/14/18 Rev 2018

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1089-1

SDG Number: 31403236.009.0129

Login Number: 1089

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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: 890-1089-1

SDG Number: 31403236.009.0129

Login Number: 1089

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 08/12/21 11:02 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1090-1

Laboratory Sample Delivery Group: 31403236.009.0129

Client Project/Site: PLU 430 H

For:

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

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
8/16/2021 4:23:14 PM

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

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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.

Client: WSP USA Inc.
Project/Site: PLU 430 H

Laboratory Job ID: 890-1090-1
SDG: 31403236.009.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Job ID: 890-1090-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative	Job Narrative 890-1090-1
-----------	-----------------------------

Receipt

The sample was received on 8/11/2021 1:31 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Client Sample ID: FS30

Lab Sample ID: 890-1090-1

Date Collected: 08/11/21 08:35

Matrix: Solid

Date Received: 08/11/21 13:31

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/12/21 09:00	08/13/21 07:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/21 09:00	08/13/21 07:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/21 09:00	08/13/21 07:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/12/21 09:00	08/13/21 07:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/21 09:00	08/13/21 07:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/21 09:00	08/13/21 07:12	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/12/21 09:00	08/13/21 07:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			08/12/21 09:00	08/13/21 07:12	1
1,4-Difluorobenzene (Surr)	108		70 - 130			08/12/21 09:00	08/13/21 07:12	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	<50.0	U	50.0	mg/Kg		08/13/21 10:11	08/14/21 03:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/13/21 10:11	08/14/21 03:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/13/21 10:11	08/14/21 03:34	1
Total TPH	<50.0	U	50.0	mg/Kg		08/13/21 10:11	08/14/21 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			08/13/21 10:11	08/14/21 03:34	1
o-Terphenyl	108		70 - 130			08/13/21 10:11	08/14/21 03:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	651		5.01	mg/Kg			08/16/21 11:53	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1090-1	FS30	97	108
890-1093-A-1-A MS	Matrix Spike	111	108
890-1093-A-1-B MSD	Matrix Spike Duplicate	111	107
LCS 880-6406/1-A	Lab Control Sample	114	103
LCSD 880-6406/2-A	Lab Control Sample Dup	112	106
MB 880-6380/5-A	Method Blank	107	99
MB 880-6406/5-A	Method Blank	128	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1090-1	FS30	96	108
890-1093-A-1-I MS	Matrix Spike	60 S1-	56 S1-
890-1093-A-1-J MSD	Matrix Spike Duplicate	30 S1-	25 S1-
LCS 880-6515/2-A	Lab Control Sample	99	104
LCSD 880-6515/3-A	Lab Control Sample Dup	95	98
MB 880-6515/1-A	Method Blank	110	125
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6380/5-A

Matrix: Solid

Analysis Batch: 6428

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6380

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 12:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 12:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 12:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 12:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 10:00	08/12/21 12:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 12:30	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 10:00	08/12/21 12:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/12/21 10:00	08/12/21 12:30	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/12/21 10:00	08/12/21 12:30	1

Lab Sample ID: MB 880-6406/5-A

Matrix: Solid

Analysis Batch: 6428

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6406

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/21 09:00	08/12/21 23:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/21 09:00	08/12/21 23:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/21 09:00	08/12/21 23:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/21 09:00	08/12/21 23:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/21 09:00	08/12/21 23:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/21 09:00	08/12/21 23:21	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/12/21 09:00	08/12/21 23:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/12/21 09:00	08/12/21 23:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/12/21 09:00	08/12/21 23:21	1

Lab Sample ID: LCS 880-6406/1-A

Matrix: Solid

Analysis Batch: 6428

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09783		mg/Kg		98	70 - 130
Toluene	0.100	0.09029		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08969		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1820		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09233		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

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

Lab Sample ID: LCSD 880-6406/2-A

Matrix: Solid

Analysis Batch: 6428

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6406

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	8	35
Toluene	0.100	0.09729		mg/Kg		97	70 - 130	7	35
Ethylbenzene	0.100	0.09521		mg/Kg		95	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1937		mg/Kg		97	70 - 130	6	35
o-Xylene	0.100	0.09810		mg/Kg		98	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1093-A-1-A MS

Matrix: Solid

Analysis Batch: 6428

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09100		mg/Kg		91	70 - 130		
Toluene	<0.00200	U	0.100	0.08111		mg/Kg		81	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.07627		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1546		mg/Kg		77	70 - 130		
o-Xylene	<0.00200	U	0.100	0.07750		mg/Kg		77	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1093-A-1-B MSD

Matrix: Solid

Analysis Batch: 6428

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6406

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08836		mg/Kg		89	70 - 130	3	35
Toluene	<0.00200	U	0.0996	0.08036		mg/Kg		81	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0996	0.07555		mg/Kg		76	70 - 130	1	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1533		mg/Kg		77	70 - 130	1	35
o-Xylene	<0.00200	U	0.0996	0.07673		mg/Kg		77	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

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

Lab Sample ID: MB 880-6515/1-A

Matrix: Solid

Analysis Batch: 6490

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6515

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/13/21 10:11	08/13/21 18:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/13/21 10:11	08/13/21 18:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/13/21 10:11	08/13/21 18:41	1
Total TPH	<50.0	U	50.0	mg/Kg		08/13/21 10:11	08/13/21 18:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/13/21 10:11	08/13/21 18:41	1
o-Terphenyl	125		70 - 130	08/13/21 10:11	08/13/21 18:41	1

Lab Sample ID: LCS 880-6515/2-A

Matrix: Solid

Analysis Batch: 6490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	794.9		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-6515/3-A

Matrix: Solid

Analysis Batch: 6490

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6515

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	814.5		mg/Kg		81	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	976.8		mg/Kg		98	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-1093-A-1-I MS

Matrix: Solid

Analysis Batch: 6490

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	995	562.8	F1	mg/Kg		53	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	995	647.5	F1	mg/Kg		60	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

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

Lab Sample ID: 890-1093-A-1-I MS

Matrix: Solid

Analysis Batch: 6490

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6515

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	60	S1-	70 - 130
o-Terphenyl	56	S1-	70 - 130

Lab Sample ID: 890-1093-A-1-J MSD

Matrix: Solid

Analysis Batch: 6490

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6515

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	998	322.2	F1 F2	mg/Kg		29	70 - 130	54	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	998	301.7	F1 F2	mg/Kg		25	70 - 130	73	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	30	S1-	70 - 130								
o-Terphenyl	25	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6469/1-A

Matrix: Solid

Analysis Batch: 6564

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			08/16/21 10:14	1		

Lab Sample ID: LCS 880-6469/2-A

Matrix: Solid

Analysis Batch: 6564

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	274.5		mg/Kg		110	90 - 110			

Lab Sample ID: LCSD 880-6469/3-A

Matrix: Solid

Analysis Batch: 6564

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	269.7		mg/Kg		108	90 - 110	2	20	

Lab Sample ID: 880-5042-A-4-B MS

Matrix: Solid

Analysis Batch: 6564

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	248	F1	250	469.5	F1	mg/Kg		89	90 - 110		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-5042-A-4-C MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 6564												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	248	F1	250	466.9	F1	mg/Kg		88	90 - 110	1	20	

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

GC VOA

Prep Batch: 6380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6380/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1090-1	FS30	Total/NA	Solid	5035	
MB 880-6406/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6406/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6406/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1093-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1093-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1090-1	FS30	Total/NA	Solid	8021B	6406
MB 880-6380/5-A	Method Blank	Total/NA	Solid	8021B	6380
MB 880-6406/5-A	Method Blank	Total/NA	Solid	8021B	6406
LCS 880-6406/1-A	Lab Control Sample	Total/NA	Solid	8021B	6406
LCSD 880-6406/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6406
890-1093-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	6406
890-1093-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6406

GC Semi VOA

Analysis Batch: 6490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1090-1	FS30	Total/NA	Solid	8015B NM	6515
MB 880-6515/1-A	Method Blank	Total/NA	Solid	8015B NM	6515
LCS 880-6515/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6515
LCSD 880-6515/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6515
890-1093-A-1-I MS	Matrix Spike	Total/NA	Solid	8015B NM	6515
890-1093-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6515

Prep Batch: 6515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1090-1	FS30	Total/NA	Solid	8015NM Prep	
MB 880-6515/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6515/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6515/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1093-A-1-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1093-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1090-1	FS30	Soluble	Solid	DI Leach	
MB 880-6469/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6469/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6469/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5042-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5042-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

HPLC/IC

Analysis Batch: 6564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1090-1	FS30	Soluble	Solid	300.0	6469
MB 880-6469/1-A	Method Blank	Soluble	Solid	300.0	6469
LCS 880-6469/2-A	Lab Control Sample	Soluble	Solid	300.0	6469
LCSD 880-6469/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6469
880-5042-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	6469
880-5042-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6469

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Client Sample ID: FS30
Date Collected: 08/11/21 08:35
Date Received: 08/11/21 13:31

Lab Sample ID: 890-1090-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6406	08/12/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6428	08/13/21 07:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			6515	08/13/21 10:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6490	08/14/21 03:34	AJ	XEN MID
Soluble	Leach	DI Leach			6469	08/12/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1	6564	08/16/21 11:53	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.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 430 H

Job ID: 890-1090-1
SDG: 31403236.009.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1090-1	FS30	Solid	08/11/21 08:35	08/11/21 13:31	- 1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0350 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 291-1111
Hobbs, NM (575-392-7550)

Work Order No:

Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	payton_benner@wsp.com, kalei.jennings@wsp.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐ State of Project: Reporting Level II ☐ Level III ☐ UST/UST ☐ RRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	PLU 430H	Turn Around	ANALYSIS REQUEST				Work Order Notes
Project Number:	31403236.009.0129	Routine ☒					CC: 1140861001
P.O. Number:		Rush:					API: 30-015-42374
Sampler's Name:	Payton Benner	Due Date:					Incident Number

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	3.6/3.4	Thermometer ID					
Received Intact:	Yes	No	7MM-007				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:			
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

Number of Containers

PA 8015)

EPA 0=8021)

le (EPA 300.0)



890-1090 Chain of Custody

nAPP2113830327

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

890-1090 Chain of Custody

[illegible]

030-1030 Chain of Custody

Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	200.8 / 6020:
TCLP / SPLP 6010_ 8RCRA	8RCRA 13PPM	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
		1634 / 245.1-17470 / 7471 -119

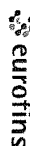
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencro will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xencro. A minimum charge of \$75.00 will be applied to each project and a charge of \$3 for each sample submitted to Xencro, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>phewer</i>	<i>Lucas</i>	8/11/21 1331	2		
3			4		
5			6		

Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1090-1

SDG Number: 31403236.009.0129

Login Number: 1090

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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: 890-1090-1

SDG Number: 31403236.009.0129

Login Number: 1090

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 08/12/21 11:02 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

TABLES

Table 1

**Soil Analytical Results
Poker Lake Unit 430H
Incident Number NAPP2113830327
Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	06/14/2021	0.5	0.0091	0.0113	5,230	<250	<250	5,230	5,230	47,700
SS02	06/14/2021	0.5	<0.00200	<0.00400	8,830	<250	<250	8,830	8,830	44,000
SS03	06/14/2021	0.5	<0.00199	<0.00398	7,970	<250	<250	7,970	7,970	67,100
SS04	06/14/2021	0.5	0.00211	0.006	13,300	<250	<250	13,300	13,300	39,300
SS05	06/14/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	695
SS06	06/14/2021	0.5	0.00612	0.122	<50.0	<50.0	<50.0	<50.0	<50.0	793
SS07	06/14/2021	0.5	0.0087	0.0162	<49.9	<49.9	<49.9	<49.9	<49.9	20.5
SS08	06/14/2021	0.5	<0.00201	0.0323	<50.0	<50.0	<50.0	<50.0	<50.0	74.5
Delineation Pothole Samples										
PH01	08/09/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	47.5
PH01A	08/09/2021	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	35
PH02	08/09/2021	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	33.4
PH02A	08/09/2021	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	26
PH03	08/09/2021	1	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	19.5
PH03A	08/09/2021	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	60.7
PH04	08/09/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	23
PH04A	08/09/2021	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	29.6
Excavation Floor Samples										
FS01	08/09/2021	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	932
FS02	08/09/2021	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	1,180
FS03	08/09/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,830

Table 1

**Soil Analytical Results
Poker Lake Unit 430H
Incident Number NAPP2113830327
Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS04	08/09/2021	1	<0.00199	<0.00398	73.5	<49.8	<49.8	73.5	73.5	2,330
FS05	08/09/2021	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	4,230
FS06	08/09/2021	1	<0.00200	<0.00400	98.4	<49.8	102	98.4	200	1,670
FS07	08/09/2021	1	<0.00199	<0.00398	191	<49.9	<49.9	191	191	2,850
FS08	08/09/2021	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	846
FS09	08/09/2021	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	3,910
FS10	08/10/2021	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	158
FS11	08/10/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	8.29
FS12	08/10/2021	1	<0.00200	0.00545	<49.8	<49.8	<49.8	<49.8	<49.8	3,240
FS13	08/10/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	547
FS14	08/10/2021	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	28.2
FS15	08/10/2021	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,240
FS16	08/10/2021	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	237
FS17	08/10/2021	1	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	322
FS18	08/10/2021	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	316
FS19	08/10/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	30.5
FS20	08/10/2021	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	466
FS21	08/10/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	686
FS22	08/10/2021	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	1,990
FS23	08/10/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	209
FS24	08/10/2021	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	441
FS25	08/10/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	174

Table 1

Soil Analytical Results
Poker Lake Unit 430H
Incident Number NAPP2113830327
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS26	08/10/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	75.8
FS27	08/10/2021	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	797
FS28	08/10/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	58.8
FS29	08/10/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	120
FS30	08/11/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	651

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

Greyed data represents samples that were excavated

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

CONDITIONS

Action 76945

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 76945
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. 19.15.29.13 NMAC will be completed upon P&A of the well.	2/9/2022